

## CITY OF CARLISLE.

## REPORT

ON THE

## Sanitary Condition of the City of Carlisle

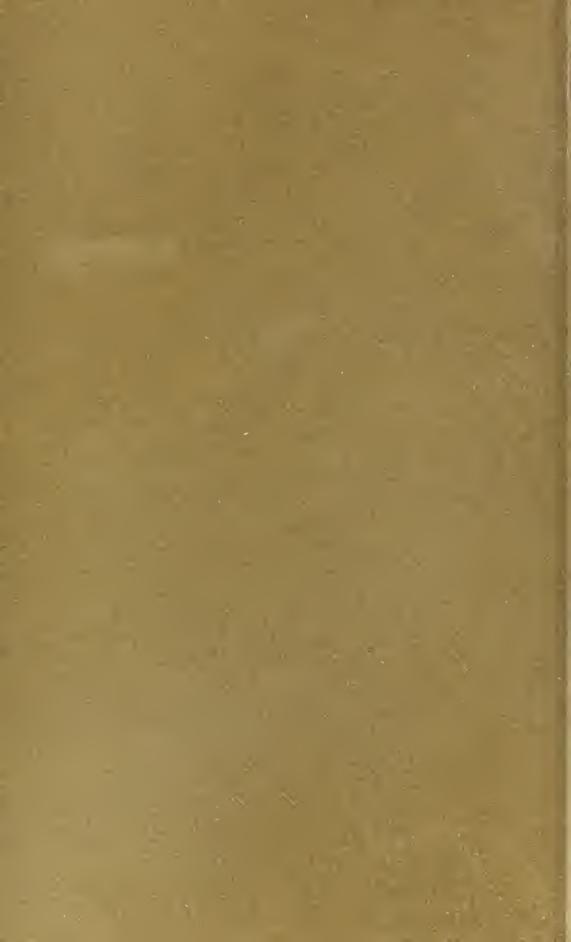
FOR THE YEAR 1926

BY

## JOSEPH BEARD,

F.R.S. (Edin.), F.R.C.S. (Edin.), L.R.C.P. (Lond.), D.P.H. (Cantab.), etc., (Of Gray's Inn, Barrister-at-L.w).

Medical Officer of He Ith, School Medical Officer, Chief Tuberculosi Officer, &c.





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CARLISLE:

CHAS. THURNAM & SONS, PRINTERS, 11 ENGLISH STREET.

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#### PUBLIC HEALTH STAFF

including all who are employed in work connected with the public health, whether under the Health, Maternity and Child Welfare, or the Education Committees:—

Medical Officer of Health, School Medical Officer, Chief Tuberculosis Officer, &c., &c.

Assistant Medical Officer of Health, Tuberculosis Officer, and Assistant School Medical Officer

Assistant School Medical Officer and Assistant Medical Officer (M. & C. W.)

Assistant Medical Officer (V.D.)
(part-time)

Dental Surgeon (part-time)

Veterinary Inspector (part-time)

Chief Sanitary Inspector, and Inspector under Sale of Food and Drugs Acts and Shops Acts
Assistant Sanitary Inspectors

Health Visitors

Nurse in charge of School Clinic and Tuberculosis Dispensary school Nurses

Matron of Maternity Hospital Clerks

Disinfector
Superintendent of Public Slaughterhouses
Public Analyst (part-time)

Bacteriologists (part-time)

JOSEPH BEARD, F.R.C.S., D.P.H., &c., &c.

ALLAN SEMPLE, M.B., Ch. B., D.P.H.

Miss E. E. BOURNE, M.B., Ch.M., 19.P.H.

ALEX. C. B. Mc.Murtrik, M.D., F.R.C.S., D.P.H. WILLIAM TAYLOR, L.D.S. R. CRAIG ROBINSON, M.R.C.V.S. \* C. W. HILL

††\* W. HANSON

\* E. S. BROADHEAD

Misses H. M. Hill, J. G. Smith,

C. Stordy

Miss M. E. Gloyne

Misses J. S. Guthrie, J. H. Braden,
G. Hunter
Miss M. C. Walker
G. E. Barrow, R. F. Thoburn,
L. Oates, Misses L. Hind and M
Purdam

H. PORTER

\*‡R. T. BLAYLOCK

CYRIL J. H. STOCK, B.Sc., F.I.C., CARLISLE AND DARLINGTON

THE PUBLIC HEALTH LABORATORY,
MANCHESTER (Prof. W.W. C. Topley)
AND THE CLINICAL RESEARCH ASSOCIATION, LONDON

<sup>\*</sup> Sanitary Inspectors' Certificate, R.S.I.

<sup>+</sup> Sanitary Inspectors' Certificate, S.I.A.

<sup>‡</sup> Meat Inspectors' Certificate, R.S.I.



To the Chairman and Members of the Health Committee.

Ladies and Gentlemen,

I have the honour to submit the Annual Report on the Health of the City for the year 1926, this being my Nineteenth Annual Report as Medical Officer of Health.

The Report has been prepared as far as practicable in accordance with the requirements of Circular 743 of the Ministry of Health, of the 20th December, 1926, consideration having been given to the recording of such particulars as may be required for future reference.

I am,

Ladies and Gentlemen,
Your obedient Servant,

JOSEPH BEARD, Medical Officer of Health.

Public Health Department,
19 Fisher Street,
Carlisle,
May, 1927.

# STATISTICS AND SOCIAL CONDITIONS. Ceneral Statistics.

İ	Area (acres)		•	• • •	• • •	4,488
I	Population (Census, 1	.921)				53,200
I	Population (1926), E	stimate o	of Regi	strar-G	eneral	
	for Birth-rate		•	• • •	;	56,320
1	Population (1926), E	stimate	of Regi	strar-G	eneral	
	for Death-rate				!	56,140
1	Number of Inhabited	Houses	(Census	, 1921)	•••	11,316
1	Number of Families	(Census,	1921)	• • •	•••	11,742
I	Rateable Value				£3	31,613
S	Sum represented by a	e Penny	Rate		٠ ا	£1,238
	Extracts from	Vital S	tatistics	of the	Year.	
Ţ	Births—	Total.	M	$\mathbf{F}.$		
1	. Legitimate					
	<u> </u>					
	Illegitimate	09	90		Birth-rat	20.5
3	Deaths	729	270			e 20.0
3	Jeauns	120	919		, eath-rat	e 12 9
						C 12.0
1	Number of women d	ying in,	or in	consequ	ience	
	of, childbirth—					0
	From Sepsis					2
	From other	causes	• • •			5
3	Deaths of Infants und	der one y	ear of a	ge per		
	1,000 births—					
	Legitimate			83.5		
	Illegitimate			57.9		
	0				Total	. 81.9
7	Deaths from Measles	(all age	s)			13
	Whoon	ing Cou				11
		œa (unde			œe)	14
	,, Dairne	ea (unue	i ~ yeu	21, 02 (	0 -/	

#### Population.

An estimate of the population at mid-year, 1926, has been supplied to me by the Registrar-General, and is as follows:—for the purpose of the calculation of mortality rates 56,140, and for the calculation of the birth-rate 56,320. These figures have been used in making the various calculations in this report.

#### Births.

The number of births registered during the year was 1,159, an increase of 114 on the figure for the previous year, and the birth-rate is 20.5 per 1,000 of the population, or an increase of 1.7 on the figure for 1925.

The birth-rate for the whole of England and Wales during 1926 was 17.8 per 1,000. The rate for the 105 great towns, to which classification Carlisle belongs, was 18.2 per 1,000, and for the 158 smaller towns of England and Wales 17.6 per 1,000.

	Numbe	r of Births Reg	gistered.	- Per 1,000 of
Year.	Males.	Females.	Total.	the population
1921	679	631	1310	24.6
1922	641	626	1267	23.6
1923	589	592	1181	21.8
1924	548	568	1116	20.3
1925	530	515	1045	18.8
1926	604	555	1159	20.5

Table showing details of the Births in the several Wards, 1926.

Quarter Ended	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	S. Cuthbert's	Caldewgate	Newtown & Belle Vue	Totals for City
March 31	18	37	24	32	25	43	32	36	37	21	305
June 30	11	25	21	32	29	31	42	32	45	26	294
September 30	18	33	29	27	28	48	39	28	31	31	312
December 31	19	37	14	21	23	40	20	21	24	29	248
Totals	66	132	88	112	105	162	133	117	137	107	1159

#### Illegitimate Births.

The number of illegitimate births registered was 69, or 59.5 per 1,000 of the total births. This shows an increase of 13 illegitimate births upon the figure for 1925.

In 14 instances, or 20.3 per cent. of the total illegitimate births for the year, the mother was not a resident of the City.

The distribution of the illegitimate births among the

several wards was as follows:-

Several wards we	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	S. Cuthbert's	Caldewgate	Newtown & Belle Vue	Totals for City
Males Females	1 2	3	2 5	6	2	<b>5</b>	5	3	<b>4</b>	1	30 39
Totals	3	7	7	11	5	11	9	4	10	2	69

#### Deaths.

The total number of deaths registered was 821, as compared with 848 in 1925. 18 deaths occurred of persons belonging to the City in institutions and other

places away from Carlisle, while the deaths of 110 persons not belonging to the City occurred in public institutions and other places within the City. Excluding the latter figure, and adding the deaths of Carlisle residents which occurred in other districts, a nett figure of 729 remains, which is equal to a nett death-rate of 12.9 per 1,000 of the estimated population at all ages, against 13.5 per 1,000 in 1925.

The corrected death-rate for the City, which is obtained by multiplying the above nett death-rate of 12.9 per 1,000 by the factor supplied by the Registrar-General, viz., .947, is 12.2 per 1,000 of the estimated population living at all ages.

The death-rate for the whole of England and Wales during 1926 was 11.6 per 1,000. The rate for the 105 great towns, to which classification Carliste belongs, was 11.6 per 1,000, and for the 158 smaller towns of England and Wales, 10.6 per 1,000.

Table showing details of Deaths of Residents in the various Wards, 1926.

Quanter Ended.	STANWIX AND ETTERBY.	RIOKERGATE.	AGLIONBY.	GRETSTONE.	ST. NICHOLAS.	CURROCK.	DENTON HOLME.	ST. CUTHBERT'S.	CALDEWGATE.	NEWTOWN AND BELLE VUE.	TOTALS FOR CITY.		
March 31	11	26	17	21	22	18	34	18	32	14	213		
June 30	13	21	26	29	10	18	15	20	16	õ	177		
September 30	9	12	19	16	10	14	15	11	20	16	142		
December 31	9	22	14	29	14	23	19	28	21	18	197		
Totals	42	81	76	95	56	73	83	77	89	57	729		

Table showing the number of Deaths at all Ages and at several age periods, 1926.

			<u> </u>					
		All Ages.	Under 1 Year.				25 and under 65	65 and up- wards.
-	No. of Deaths at all ages and at several age periods	729	95	51	22	29	251	281

The following Table shows the diseases causing the largest number of Deaths during 1926, and a comparison with those of 1925, &c.:—

DISEASE.	1925.	1926.	Increase or Decrease	No. of
Pulmonary Tuberculosis & Phthisis	49	48	_ 1	48
Other forms of Tuberculosis	7	15	+ 8	17
Pneumonia	35	44	+ 9	50
Other Diseases of Respiratory System	65	48	- 17	58
Measles	8	18	+10	11
Influenza	21	7	14	33
Whooping Cough	7	11	+ 4	9
Diphtheria, Membranous Croup	2	10	+ 8	6
Disease of Heart and Blood Vessels	159	157	_ 2	160
Rheumatic Fever, Chronic Rheumatism, Rheumatoid Arthritis	11	3	8	7
Cancer and Malignant Disease	84	67	-17	67
Diseases of Digestive System other than Diarrhœa and Enteritis	35	26	- 9	26
Diseases of Genito-Urinary System	29	32	+ 3	29
Diseases of Nervous System	76	73	3	54
Prematurity and Injury at Birth, &c.	34	40	+ 6	41
Accidents due to Negligence	20	24	+ 4	19
Diarrhœa and Enteritis	21	21	• • •	22

<sup>+</sup> Shows an increase in the number of deaths.

<sup>-</sup> Shows a decrease in the number of deaths

# The following Table sets out the Cause and the Ages at Death of 729 persons belonging to the City:—

723 00:00:00										
										TOTAL DEATHS
		NETT	DEATE	IS AT	THE SU	BJOIN	ер Ао	ES OF		WHETHER OF
		"RESI	DENTS	WHE	THER (	COURI	RING W	ITHIN	ĺ	"RESIDENTS"
			OR V	VITHOU	THE THE	DISTR	ICT.			OR "NON-RESI
CAUSE OF DEATH.										DENTS" IN
		Under	1 and	2 and	5 and	15 and	25and	45 and	65 and	INSTITUTIONS
	All	1	under	under	under	uuder	under	under	up-	IN THE
	Ages.	vear.	2	5.	15.	25.	45.	65.	wards	DISTRICT.
		7								
1	2	3	4	5	6	7	8	9	_10	11
All Causes (Certified	712	91	21	29	22	28	81	164	276	284
Uncertified	. 17	4	1			1	1	5	5	1
Enteric F ever										***
Smallpox										***
Measles	. 18	6	6	6						2
Scarlet Fever	. 4		1	1	1	1				3
Whooping Cough	. 11	5	5	1						***
Diphtheria and Croup	. 10			5	6					6
Influenza	. 7						3	1	3	***
Dysentery			1							***
Erysipelas	. 1							1		1
Phthisis (Pulmonary Tuberculosis)	. 48				3	9	23	12	1	9
Tuberculous Meningitis	8	1	1	3	3					3
Other Tuberculous Diseases	. 7		1			1	2	2	1	6
Cancer, Malignant Disease	67						5	32	30	40
Rheumatic Fever	3				2				i	***
Meningitis	1						1	 1		ï
Organic Heart Disease	89	1					8	20	61	14
Bronchitis	42	6	1				i	9	25	14
Pneumonia (all forms)	44	9	3	9	ï	4	8	8	7	9
Other Diseases of Respiratory Organs.	6				l		i	1	4	
	. 21	12	2				i	4	2	ii
Appendicitis and Typhlitis Cirrhosis of Liver	. 2					1		. 1		7
Alcoholism	. 5						1	3	1	9
Naphritia and D. 1 1 1 2 2 2 2 2										
Nephritis and Bright's Disease Puerperal Fever	23			1	1	1	4	ii	6	10
Other Accidents and Di	2					2				ĩ
Other Accidents and Diseases of Preg- nancy and Parturition	1							•••		
Congenital Debility & Marie	5					1	4		1	
								•••		
Violent Deaths, excluding Suicide		47	1					1		9
	24			1	3	3	7	6	4	18
Other Defined Disco	6						3	9	i	ž
Diseases ill-defined or unknown	227	9	1	3	3	6	15	55	134	116
	• • • •	1						)		
Total	-	-								
Totals	729	95	22	29	22	29	82	169	281	285
Sub- Entries Cerebro-spinal Meningitis							1		1	
							1			1
Typhus Force										
LOURT Phenmonia				***						
Pneumonia not defined	11		1			3	i	3	3	5
denned	9	4		2	1		1		2	
	1	1							4	

## The following Table shows the Vital Statistics for the whole City during 1926 and previous years:—

1		a	E	BIRTHS	١.		DEATHS TERED	TRANSI DEA	ERABLE	NETT I	DEATHS E	BELON	GING
-		neral's oulation each		Ne	ett.	IN ?	THE RICT.				1 Year	AT	
I		ener opul if ea	sted r.			17181	kici.	of Non-residents registered in the District.	not	of	age	AG	
	Year.	Registrar-General's Estimate of Population to Middle of each Year	Uncorrected Number.	Number.	Rate.	Number.	Number, Rate.		of Residents not registered in the District.	Number.	Rate per 1,000 Nett Births.	Number.	Rate.
	1	2	3	4	5	6	7	8	9	10	11	12	13
I													
l	1917 }	59,151 53,064	1117	1120	18.9	826	15.5	101	46	119	106.5	771	14.5
	1918 }	60,188 53,717	1033	1037	17.2	921	17.1	120	49	131	126.8	850	15.8
	1919 {	57,500 55,198	1066	1078	18.7	778	14.1	112	54	115	107.9	720	13.6
	1920 }	57,697 57,397	1425	1417	24.7	785	13.7	117	37	114	80.0	705	12.3
l	1921	53,200	1310	1298	24.6	818	15.3	85	21	138	105.3	754	14.1
۱	1922	53,490	1267	1267	23.6	864	16.1	101	21	103	81.2	784	14.6
	1923	54,010	1181	1171	21.8	797	14.7	91	26	98	82.9	732	13.5
	1924	54,910	1116	1123	20.3	849	15.4	103	17	106	94.9	763	13.8
	1925 }	* 55,360 † 55,160	1045	1030	18.8	848	15.3	122	22	82	78.4	748	1 <b>3</b> .5
	1926 {	* 56,320 † 56,140	1159	1163	20.5	821	14.6	110	18	95	81.9	729	12.9
-									1				

\* For Birth-rate,

+ For Death-rate.

## The following Public and other Institutions are within the City:—

The Union Workhouse and its Infirmary.

The Cumberland Infirmary.

Carlisle Non-Provident Dispensary.

The Crozier Lodge Isolation Hospital.

Strathclyde House (Home for Incurables).

St. Joseph's Home (aged and infirm persons).

Corporation Dispensary and School Clinic.

Corporation Maternity Hospital and Clinics.

# Birth-rate, Death-rate, and Infantile Mortality in Carlisle since 1891.

	No.	Birth-	No. of	Gross Death-	Infantile Mor-	Avera	ige Five	Years.
Year.	Births.	rate.	Deaths.	rate.	tality.	Birth- rate.	Death- rate.	Infantile Mortality.
1891	1207	30.8	789	20.1	137			
1892	1213	30.5	805	20 2	123			
1893	1389	34.5	868	21.6	178 }	31.8	20.1	142.6
1894	1315	32.0	780	19.2	133			
1895	1311	31.4	794	19.4	142			
1896	1246	29.6	753	18.2	137			
1897	1324	30.8	811	19.4	134			
1898	1311	30.0	935	22.2	183	29.9	19.5	146.6
1899	1300	29.4	818	19.2	145			
1900	1354	30.1	807	18.8	134			
1901	1246	27· <b>3</b>	810	17.8	129			
1902	1245	27.0	856	18.5	117			
1903	1322	28.4	813	17:4	118	26.7	17.9	131.0
1904	1278	26.7	933	197	152			
1905	1168	24.3	783	16.3	139			
1906	1227	25.3	811	16.7	132			
1907	1178	23.8	848	17:1	14			
1908	1223	24.4	713	14.2	129	23.6	15.1	127.5
1909	1149	22.6	735	14.5	123.6			
1910	1145	22.2	683	13.2	110.0			
1911	1109	23 8	776	16.7	145.0			
1912	1142	24.6	813	17.5	102.4			
1913	1164	22.1	821	15 6	127:1 }	23.2	17.1	128.2
1914	1209	23.0	848	16.1	122.4			
1915	1192	22.6	1027	19 5	144.37			
1916	1103	20.3	850	17.0	101.5			
1917	1117	18.8	826	15.5	106.5			
1918	1033	17.1	921	17:1	126.8	19.9	15.5	104.5
1919	1066	18.5	778	14.1	107.9			
1920	1425	24.7	785	13.7	80			
1921	1310	24.6	818	15.3	105.3			
1922	1267	23.6	864	16.1	81.2			
1923	1181	21.8	797	14.7	82.9	21.8	15· <b>3</b>	88.5
1924	1116	20.3	849	15.4	95.0			
1925	1045	18.8	848	15:1	78.4			
1926	1159	20.5	821	14.6	81.9	21.0	15.1	83.8

The following figures relate to the deaths of persons not normally resident in the district which occurred within the City:—

Cumberland Infirma	.rv			78
		* * *		10
Private Nursing Ho	omes		* * *	20
Private Houses				4
Fusehill Hospital				7
Citadel Station				1

#### Inquests.

During the year the City Coroner held 49 inquests. Of this number, 38 related to deaths of persons who resided within the City, and 11 to persons who resided in other districts, but who died within the City. 6 related to children under five years of age, 2 of whom were under one year.

#### Mortuary.

15 bodies were removed to the Public Mortuary, a post-mortem examination being made in each instance.

#### Uncertified Deaths.

17 deaths were registered of persons belonging to the City in which no certificate was given by a medical man, and in which no inquest was held.

During 1925, 23 such deaths were registered.

#### Cancer.

The number of deaths registered as due to cancer during 1926 was 67, against 84 in 1925, the rate of mortality from this disease being 1.1 per 1,000 of the population.

This figure includes all deaths from causes coming within the general term cancer.

Table of Deaths from Cancer, 1917-1926.

Age.	Numbers.									
	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
1 to 5 years 5 to 15 years 15 to 25 years 25 to 35 years 35 to 45 years 45 to 55 years 55 to 65 years 65 to 75 years	1 1 7 10 32 14	 1 1 5 13 21	 2  9 19 15	1  1 5 15 12 17	 1 2 2 5 20 19	1 1 12 22 15	 2 13 21 26	 1 1 5 10 20 25	 4 23 26 21	2 3 6 26 21
75 & upwards	8	7	4	11	4	14	16	10	10	9
Totals	73	66	49	62	53	68	78	72	84	67

#### CENERAL PROVISION OF HEALTH SERVICES.

#### Hospitals provided or subsidised by the Local Authority.

- A (1) Fever. General intectious diseases are sent to Crozier Lodge Isolation Hospital, Carlisle, 50 beds.
- (2) Small pow. The Corporation has provided a hospital for the isolation of smallpox a few miles out of the City, containing 12 beds.
- B (1) Tuberculosis. The Corporation has a call upon 20 beds in the Blencathra Sanatorium, Threlkeld, Cumberland, in accordance with the agreement made between the Local Government Board, the Sanatorium Committee, and the Corporation.
- (2) Maternity. A hospital has been provided by the Corporation at 3 George Street, Carlisle, containing 13 beds and a like number of infants' cots.
- (3) Children. There is a children's ward at the Cumberland Infirmary which provides for local requirements.
  - (4) Others. None.

## Institutional Treatment for Unmarried Mothers. Illegitimate Infants, and Homeless Children.

In addition to the Fusehill Institution accommodation is provided for the above classes by the North Cumberland and Carlisle City Association for Preventive and Rescue Work at Coledale Hall.

#### Ambulance Facilities.

- (a) For infectious cases. The Corporation provide, and own a motor ambulance for the removal to hospital of cases of infectious disease, which is operated by an officer of the Public Health Department. By arrangement, the ambulance and the officer who has charge of this work, are also available for the removal to hospital of cases of infectious disease from any part of the area of the Carlisle Rural District Council.
- (b) For non-infectious and accident cases. A public ambulance, provided by the Corporation, for accidents and illness other than infectious disease, is kept at the Fire Station, Spring Gardens Lane, for which the following charges are made:—

For residents in the City ... 7/6 for each removal

For not exceeding 2 miles outside
the City ... ... 10/- ,,

For beyond 2 miles and not
exceeding 3 miles ... ... 12/6 ,,

For each additional mile thereafter
(limited to 20 miles outside
the City) ... ... 3/- per mile

Between 9 p.m. and 7 a.m. 50 per cent. additional is charged.

In cases of accidents in the streets no charge is made for the removal of persons to the Infirmary or their homes.

# LIST OF EXISTING CLINICS AND INFANT WELFARE CENTRES IN THE CITY.

Provided by.	Carlisle Corporation	Do.	The Carlisle Mothers' and Babies' Welcome Society	Do.	Do.	Do.	Carlisle Corporation	Do.	Do.	Do.	Do	Jointly by Carlisle Corporation and the Cumberland County Council
Accommodation.	Waiting, Consulting, and Weighing Rooms	Waiting, Consulting, and Dressing Rooms	One Large Room	Two Rooms	One Room	Two Rooms	Three Rooms	Two Rooms	Two Rooms and Dark Room	Two Rooms	Four Rooms and Laboratory	Three Rooms
Address.	Maternity Hospital, 3 George Street	Do.	West Walls	St. John's Hall,	Caldewgate	Howie Boyd Hall, Currock	2 George Street	Do.	Do.	Do.	1 George Street	Cumberland Infirmary
Nature of Centre.	Maternity and Child Welfare (Post-natal), once weekly	Maternity and Child Welfare (Antenatal), once weekly	Infant Welfare Centre, weekly	Do. do.	Do. do.	Do. do.	School Clinic, Minor Ailments, daily	Do. Dental, twice weekly	Dc. Special Ophthalmic Examinations, weekly	Do. X-Ray, weekly	Tuberculosis Clinics, three times weekly	Venereal Clinic, five sessions weekly and intermediate treatment

#### Professional Nursing in the Home.

- (a) General. None.
- (b) Infectious. An annual retaining fee of £20 is paid by the Council to the Carlisle District Nursing Association, on condition that nursing facilities will be made available by them for such cases of puerperal fever, ophthalmia neonatorum, measles, whooping cough, and epidemic diarrhæa, as the Council may require them to attend. In addition, 1s. per visit is paid on account of such cases.

#### Midwives.

The Corporation do not employ midwives except at the Maternity Hospital, and do not pay any subsidy in respect of any midwife practising in the district.

There were 22 midwives in practice in the area at the end of the year.

#### Chemical Work.

This work is carried out by Cyril J. H. Stock, Esq., B.Sc., F.I.C., &c., of Darlington. The results of his analyses of the various foods, drugs, &c., for the past year are shown on pages 22 and 70.

#### Bacteriological Work.

28 samples of milk were submitted to the Public Health Laboratory, Manchester, for bacteriological examination, 24 being samples of fresh cows' milk and 4 of pasteurised cows' milk. These were all routine samples purchased from milkshops and carts in the City. In one instance tubercle bacilli were found. The place of production of the sample in question was outside the City, and the matter was dealt with by the County Veterinary Inspector.

Two samples of milk other than the foregoing were submitted by the Veterinary Inspector to the Clinical Research Association for bacteriological examination, in the case of a suspected animal at each of two farms. In both instances action was taken under the provisions of the Tuberculosis Order, 1925. Both animals were found to be tuberculous, and post-mortem examination in each instance revealed the disease to be in an advanced condition. The owners were compensated in accordance with the Order.

90 specimens of sputum have been examined at the Tuberculosis Dispensary, for the presence of the tubercle bacillus, in 30 of which the organism was found.

28 swabs from throats were submitted to the Clinical Research Association for examination for the Klebs Loeffler Bacillus, and in 11 instances the organism was found.

Four samples of City water, taken from a domestic tap, were submitted to the Public Health Laboratory, Manchester, for bacteriological examination. A tabulated summary of the reports is given on page 21.

The following Acts, Bye-laws, ar in force in the district, and were add	nd Regulations are opted on the dates
mentioned:	
Bye-laws with respect to New Streets	
and Buildings under the Public	
Health Act, 1875	13th Oct., 1885
Regulations under the Contagious	, , , , , , , , , , , , , , , , , , , ,
Diseases (Animals) Act, 1886, and	
the Dairies, Cowsheds, and Milk-	
shops Order of 1885	16th July, 1889
The Infectious Diseases (Prevention)	
Act, 1890	10th March, 1891
The Public Health Acts (Amend-	
the fubic fleaten Acts (Amente	10th March 1901
ment) Act, 1890	10th March, 1891
Bye-laws for regulating the Public	
Pleasure and Recreation Grounds,	
made in pursuance of the Public	
Health Act, 1875	14th Feb., 1893
Bye-laws with respect to Common	,
Lodging-houses, made in pursuance	
of Section 80 of the Public	
	1511 4 1000
Health Act, 1875	15th Aug., 1893
Bye-laws relating to the conveyance	
of carcases of dead animals through	
the streets	8th Jan., 1895
Byc-laws for regulating the Carlisle	ŕ
Public Slaughter-houses under the	
Public Health Act, 1875	12th May, 1896
Bye-laws made for regulating the	1.2011 1.12019; 1.000
carrying on of offensive trades, in	
pursuance of Section 113 of the	0.1 75 7 1000
Public Health Act, 1875	
Baths and Wash-houses Ants	9th July, 1901
Measles Regulations, 1923	1st Jan., 1924
Public Health Acts (Amendment)	,
Act, 1907—	
Section 86, Marine Store Dealers,	
170 1 1 1 1 2 2 6 7 2	99nd Ion 1014
and Dealers in old Metal Section 95. Miscellaneous Pro-	22nd Jan., 1914
	21-4 M., 1 1005
visions	31st March, 1925
Part VI. Recreation Grounds	24th Aug., 1926
Section 51. Offensive Trades	10th June, 1926
Section 50. Ambulance	4th Aug., 1926
Public Health Act, 1925 -	()
Parts II. III. IV. and V	9th March, 1926
Part VJ	24th Aug., 1926
	2000

RAINFALL.

Observations taken at the Varlisle Cemetery by Mr. J. T. Charlton.

A verage for	10 years 1916-1925.	in.	2.92	88 67	1.91	1.94	2.36	1.75	3.06	3.84	3.12	3.40	2.32	3.12	32.12	204
1926.	Rainfall, days on which Rain fell.		17	19	16	16	20	15	16	16	15	16	23	12	201	·
	Rainfall.	in.	2.67	3.94	1.39	1.75	2.16	3.17	2.94	2.91	5.74	3.15	4.23	0 65	34.70	:
	1925	in.	2.19	4.82	1.27	3.27	3.48	0.40	1.97	3.18	4.08	3.73	1.06	2.72	32.17	189
	1924	in.	2.77	0.95	1.73	1.81	3.73	1.90	4.63	3.13	3.33	4.13	1.97	5.03	35.11	210
	1923	in.	1.74	4.08	0.84	2.55	1.98	0.00	2.22	7.40	3.01	2.61	4.06	2.45	36.53	231
	1922	in.	2.25	2.87	1.31	1.89	1.79	2.98	P.2.7	2.53	2.02	1.20	0.84	3.43	28.55	209
	1921	in.	5.01	0.16	3.71	98.0	1.28	0.65	2.44	5.39	2.15	9.56	1.68	3.94	29.83	205
	1920	in.	4.17	2.61	3.11	2.17	3.48	2.11	4.26	2.50	1.89	1.00	2.02	2.79	32.11	211
	1919	in.	2.88	1.05	2.35	1.49	1.10	5.66	0.87	2.96	1.81	2.36	2.36	3.32	25.21	191
	1918	in.	3.13	2 86	99.0	0.50	1.88	0.87	3.73	3.21	7.36	4.00	2.01	3.44	33.65	190
	1917	in.	1.53	1-13	1.98	2.45	1.91	2.01	1.31	£9.6	2.61	4.33	2.83	1.40	29.13	176
	1916	ii.	3.55	3.31	2.14	2.44	2.98	3.30	4.61	2.39	2.06	5.10	4.34	2.75	38.97	228
	Months.		January	February	March	April	May	June	July V	August	September	October	November	December	Totals	Fotal number of days   on which Rain fell

## SANITARY CIRCUMSTANCES. Water Supply.

Total annual distribution of Water from Cumwhinton covered reservoir during the years 1917 to 1926.

Year.	Number of Gallons.	No. of Gallons per head, per day.
1917	801,490,000	33.78
1918	795,220,000	34.58
1919	804,040,000	34.88
1920	814,170,000	35.41
1921	771,250,000	33.54
1922	753,500,000	32.98
1923	747,320,000	32.49
1924	712,630,000	30.90
1925	737,000,000	32.06
1926	758,630,000	33.00
	, ,	

## Bacteriological Results of Quarterly Samples of Water taken from a Domestic Tap.

	taken	Troi	m a	nom	esti	CI	ap.				
QUANTITATIVE ANALYSIS					192	26.					
A. Aerobic micro-organ- isms growing in 3 days in nutrient gelatine at 20° C.		Number of colonies in one gramme of water.						No. of kinds clearly recognisable.			
to 21° C.	MAR.	JUN	E.	SEPT.	DE	C.	MAR.	JUNE.	SEPT.	DEC.	
Non-Liquefying Bacteria Liquefying Bacteria Other Micro- Organisms B. Anærobic Micro-Organisms	48 3 3 	54 6 }	60	55 19 74 		}141				•••	
QUALITATIVE ANALYSIS.	MARCH			JUNE.	926	•	SEPT.		DEC.		
or fæcal pollution of fo	Colimmunis ound in 1 C. but nound in 1 co.	ot	B. Coli communis found in 10 C.C. but not in 1 C.C.			B. Coli communis found in 10 C.C. but not in 1 C.C.			B. Coli communis found in 10 C.C. but not in 1 C.C.		
B Bacteria asso- ciated with disease	Not found		N	ot found		N	ot foun	d	Not for	ınd	

# Results of Chemical Analyses of Quarterly Samples of Water taken from a Domestic Tap.

Results shown in parts per 100,000.		19	926	
CHEMICAL	MARCH.	JUNE.	SEPT.	DEC.
Chlorine as Chlorides	1.0000	1.0000	1.0250	1.0000
Nitrogen as Nitrates	trace	.0658	.0579	None
Ammonia	None	None	None	None
Albuminoid Ammonia	None	None	None	None
Oxygen absorption	.0552	.1056	.2240	.1416
Injurious Metals (Lead and Copper)	None	None	None	None
Total Solid Matter dried at 100° C	13	12	11	13
Temporary Hardness	7.2*	5.80°	4.80°	6.00°
Permanent Hardness	2.4°	4.00	4.()0°	3.60°
Colour and Appearance in two-foot tube  Odour when heated to	Faint green, not quite clear	Faint green,	Peaty green, clear	Light peate green, clear
50° C	None	None	Faint	None
Microscopical Examina tion	Minute deposit consisting of earthy and vegetable	Minute deposit consisting of earthy and	sisting of particles of	
	matter, etc.	vegetable matter, etc.	earthy and vegetable matter, etc	vegetablee matter, etc.

#### Rivers and Streams.

None of the water from rivers or streams in the area of the Authority is used for drinking purposes, and no necessity arose for any action to be taken in respect of pollution.

Drainage and Sewerage.
Closet Accommodation.
Scavenging.
Sanitary Inspection of
the Area.
Smoke Abatement.
Offensive Trades.

Information regarding these matters will be found on pages 71—73 and 75.

#### Schools.

The sanitary condition of the schools generally in the City is good. Some of the school buildings are, however, old or of an old type, but from time to time the Education Committee have effected beneficial changes by giving up the use of a school, or by reconstruction or partial reconstruction of a school. There are adequate facilities in every school in the area for an abundant supply of water, both for drinking and all sanitary purposes, under the Authority's scheme of water supply.

Neither the Local Authority nor the Education Committee have for a number of years been able to satisfy themselves that any appreciable benefit in respect of the spread of infectious disease would be likely to result from school closure, consequently the methods adopted against the prevention of the spread of infectious disease have been the various active steps taken by the officers of the Authority, and the exclusion of individual scholars.

#### HOUSING.

Up to the end of the year the total number of houses for the erection of which the Corporation had received the sanction of the Minister of Health was 1,344, 160 of which relate to the parlour type of house and 1,184 to the non-parlour type, which will be provided as follows:—Denton Street, 24; Boustead's Grassing, 32; Stanwix, 74; Longsowerby, 198; Blackwell Road Estate, 612; Wigton Road Estate, 188; and Raffles Estate, 216.

The total number of houses erected at the end of the year was 984, distributed as follows:—Denton Street, 24; Boustead's Grassing, 32; Stanwix, 74; Longsowerby, 98, Blackwell Road Estate, 552; Wigton Road Estate, 188; and Raffles Estate, 16.

The houses in course of erection at the end of the year comprised 60 on the Blackwell Road Estate and 200 on the Raffles Estate, all of which are of the non-parlour type.

During the year 112 houses were built by private enterprise, 90 of which, viz., 78 of the parlour type and 12 non-parlour type, were eligible for the subsidy under the provisions of the Housing, &c., Act, 1923.

At the end of the year 3 houses, all of the parlour type, which are being built by private enterprise, were in course of erection.

Number of New Houses erected during the year :-

	1
(a) Total (including numbers given separately under (b)).	488
(b) With State assistance under the Housing Acts:	
(i) By the Local Authority.	376
(ii) By other bodies or persons.	90
1.—Unsit Divelling Houses.	
Inspection.—(1) Total number of dwelling houses in-	
spected for housing defects (under Public	
Health or Housing Acts)	120
(2) Number of dwelling houses which were	
inspected and recorded under the Hous-	
ing Consolidated Regulations, 1925	90
(3) Number of dwelling houses found to be	
in a state so dangerous or injurious to	
health as to be unfit for human habitation	5
(4) Number of dwelling houses (exclusive	
of those referred to under the preceding	
sub-head) found not to be in all respects	
reasonably fit for human habitation	85
2.—Remedy of Defects without Service of formal Notices.	
Number of defective dwelling houses rendered fit in	
consequence of informal action by the Local	
Authority or their officers	23

P. Carlos D. C.	
— Action under Statutory Powers.	
(a) Proceedings under Section 3 of the Housing Act, 1925—	
<ul> <li>(1) Number of dwelling houses in respect of which notices were served requiring repairs</li> <li>(2) Number of dwelling houses which were rendered fit after service of formal</li> </ul>	None
notices	
(a) By Owners (b) By Local Authority in default	None
of Owners	None
(3) Number of dwelling houses in respect of which Closing Orders became opera-	rone
tive in pursuance of declarations by	
	None
(b) Proceedings under Public Health Acts— (1) Number of dwelling houses in respect	
of which notices were served requiring	
defects to be remedied	30
(2) Number of dwelling houses in which	
defects were remedied after service of	
formal notices	9.0
(a) By Owners (b) By Local Authority in default	30
of Owners	None
(c) Proceedings under Sections 11, 14, and 15 of the	
Housing Act, 1925	
(1) Number of representations made with a	
view to the making of Closing Orders	None
(2) Number of dwelling houses in respect	None
of which Closing Orders were made (3) Number of dwelling houses in respect of	None
which Closing Orders were determined,	
the dwelling houses having been	
rendered fit	None
(4) Number of dwelling houses in respect	
of which Demolition Orders were	NT
made (5) Number of dwelling houses demolished	None
in pursuance of Demolition Orders	33*

<sup>\*</sup>Demolished by owner following Service of Notice under Section 28 of 1919 Act. Rebuilt as business premises.

## INSPECTION AND SUPERVISION OF FOOD. Milk Supply.

The number of milk producers in the City is 19, the number of cowsheds 34, and the average number of cowshoused therein 256.

During the year there were 15 milkshops and 61 milk purveyors on the register, 33 of the purveyors being persons whose premises are situated outside the City.

With regard to the milk supply of the City, no outbreak of acute infectious illness has occurred; some of the milk, however, leaves a good deal to be desired in respect of micro-organisms and dirt content.

The larger proportion of the fresh milk retailed in the City comes from districts outside, and is sold direct from the cans, conveyed mostly by carts, and in four instances by motor vehicle. 3 purveyors retail the whole of their milk in bottles, the milk being cooled and bottled at the time of production. 7 other purveyors sell partly from the can and partly in bottle; in 5 instances the milk is cooled and bottled at the time of production on farms in the City, and in the remaining 2 instances the milk is not bottled until after its arrival in the City from farms outside.

With regard to the administration of the Milk and Dairies Order, 1926, 44 special inspections of premises have been made, the particulars of which will be submitted at an early date to the Health Committee for any action that may be considered necessary under the provisions of the Order.

4 licences have been issued under the Milk (Special Designations) Order, 1923, 1 to the Carlisle Co-operative Society, Ltd., in respect of pasteurising plant, and 3 to retailers, 2 of which were in respect of Certified Milk, and the third in respect of Grade A (Tuberculin Tested) Milk.

There has been no refusal or revocation of registration of a retailer or of a licence for graded milk.

The following particulars, which exclude the question of tubercle bacilli, show the bacterial condition of 28 samples of milk.

#### PASTEURISED MILK.

No. of sample.	Date when sample was taken.	Total No. of bacteria per 1 c. c		Coli pre in	ont .01 c.c.	Total sediment (cells, cellular products, litter, dung. &c.) in parts per 100,000.
1 2 3 4	1st March 26th May 16th Aug. 15th Nov.	54,000 161,000 72,500 120,000	+++++	++	- +	10 20 19 20

#### RAW MILK.

No. of sample.	Date when sample was taken.	Total No. of bacteria per 1 c. c.	in 1 c. c.   .1 c. c.   .01 c.c.			Total sediment (cells, cellular products, litter, dung, &c.) in parts per 100,000.
1 2	1st Mar.	29,700 1,606,667	+ +	++	+ +	Not estimated on
3	9.0	1,080,000 2,663,333	++	+++	++	account of clotting 6 9
5 6 7	22nd April	373,500 96,000 160,000	+ +	+ + +	+ + +	30 24 27
8 9 10	26th May	1,300,000 840,000 40,000	+ + +	+ + +	+ + +	15 30 10
11 12 13	77	18,150 199,500 780,000	+ + +	+ +	+ + +	11 8 13
14 15 16	16th Aug.	7,300,000 2,700,000 2,715,000	+ + +	+ + +	+ +	10 9 10
17 18 19	12 21 21	350,000 705,000 830,000	+ +	+ +	+++++	14 16 13
20 21	15th Nov.	211,090 39,200	++++	++	+++++++++++++++++++++++++++++++++++++++	9 13 50
22 23 24	91 99	7,150 21,225 252,000	+++	+++	+++	11 56

## Public Health (Milk and Cream) Regulations, 1912 and 1917.

1. Milk; and Cream not sold as Preserved Cream.

			(a)		(b)				
	N	umber	of sample	s Nu	Number in which				
	(	examine	ed for the	pre	preservative was				
		presend		re	reported to be				
		preser	vative.		present.				
Milk			52 .		N	one			
Cream			4 .			1			

Nature of preservative in each case in column (b) and action taken under the Regulations in regard to it.—

This sample contained .1 per cent. of Boric Acid, and the vendor was cautioned.

#### 2. Cream sold as Preserved Cream.

(1) (1-----

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct—

(ii)	Statements incorre	made ct		7 None
			Total	7
(iii)	Percentage of pres	ervativ	e	Percentage stated
	found in each sa	mple.		on statutory label
	Boric Acid		.34	.40
	,,		.26	.40
	,,		.03	.40
	,,,		.03	.40
	9 9		.16	.40
	2.3		.29	.40
	"		.31	.40
/71				

(b) Determinations made of milk fat in cream sold as preserved cream—

(i) Above 35 per cent. (ii) Below 35 per cent.	• • • •	• • •	• • •	7 None
		Total		7

- (c) Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article V (1) and the proviso in Article V (2) of the Regulations have not been observed.—

  None
- (d) Particulars of each case in which the Regulations have not been complied with, and action taken— None.
- 3. Thickening substances. Any evidence of their addition in cream or to preserved cream. Action taken where found.

The Analyst makes no remark upon the question of thickening substances in his reports.

4. Other observations (if any).— None.

#### Meat.

As I have pointed out in previous reports, the Corporation have a commodious and well-equipped Slaughterhouse, which was opened in 1893. The management is under the direction of the Medical Officer of Health, who is assisted by the Sanitary Inspector and his deputy, and a resident Superintendent at the Abattoir itself. As there is no so-called private slaughter-house in the City, all animals slaughtered in the City are dealt with at the Public Abattoir. Licences are granted in respect of three killing sheds, two of which, viz., the L.N.E. Railway, and the L.M. & S. Railway, are used exclusively for the slaughter of sheep and lambs for the Smithfield Market, and the third exclusively for the slaughter of pigs by Messrs. Cavaghan & Gray, Harraby.

Inspection of meat at the Public Slaughter-house is performed in the first instance by the Superintendent, who retains all unsound, diseased, or suspected meat for further examination by the Medical Officer of Health or other authorised officer of the Local Authority acting under him. Meat stalls are not permitted in the City, other than those situate inside the Public Market, a large covered market owned by the Local Authority. All other shops from which meat is sold are regularly inspected, and without exception every butcher's shop in the City is fitted with a window or windows which can be regulated so as to ensure protection to meat.

#### Public Slaughter-houses.

The following Table gives particulars of Animals killed, Carcases examined, and particulars of Carcases unfit for human food:—

	Total number of animals		Number in which the whole car-	Number in which a portion of	Number in which edible			
Animal	slaughtered and	referred for ex-	case was unfit for human food	a carcase was unfit for human food	offal only was unfit	Whole carcase condemned	Part of carcase condemne	d
								-
Oxen	4,478	113	80	25	8	60	17	
Sheep	14,889	39	38	1		***		
Calves	285	4	4			1		Δ
Pigs	4,712	118	9	2	107	4	2	
-			-					-
Totals	24,364	274	131	28	115	65	19	

#### Other Foods.

Information concerning unsound food, food inspection, bakehouses. &c., and the work under the Sale of Food and Drugs Acts will be found on pages 73—78.

## PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

#### Infectious Diseases Generally.

During the year 1235 notifications of infectious disease were received, 71 of which related to various forms of tuberculosis, and 1164 to other infectious diseases.

The number of deaths certified as due to the seven principal zymotic diseases was 64, equal to a zymotic death-rate of 1.1 per 1,000 of the population. In the previous year 42 deaths were certified as due to zymotic diseases.

Table showing the Age Groups and Wards in which cases of Infectious Diseases were notified during 1926.

Zumber of cases removed to hospital			22.00	
Nett number of cases hotified			23.6 4.5 5.0 3.4 3.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	
		Number of c	42:::::::::::::::::::::::::::::::::::::	
	pe	Potal number	240 56 30 30 34 34 34 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	
	1	Relle Vue	224   1   2   2   2   2   2   2   2   2   2	
Vard.		Caldewgate	21 191 18 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1	
ich V	-	Standatus	16 17 17 17 17 17 17 17 17 17 17 17 17 17	
Number of Cases notified in each Ward.		Holme	00 0 14 H 12 1 14 0 1 1 1 1	
nfied		Ситгоск	0. 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1 − 1	
ou sa		St. Nicholas	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Case		Эподерене	31 52-818 : 1 : :45.9 : : :	
er of		Aglionby	881111111111111111111111111111111111111	
Zumk	on the second	Віскетgate	57.0 :00 :01 : 1 : 1.00 : : : 1 : :	
		Stanwix and Stateby	200	
J C		-qu bas dd	::::0:4::::::::::::::::::::::::::::::::	
		45—65 years	11: 30 11: : 30 11: : 30	
Notil	aber of Cases Notthed various Ages.	25—45 years	21 82 2 4 8 1 : : : : : : : : : : : : : : : : : :	
ases		12-25 years	70 00 00 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
o Jo		vario	5-15 уевтв	25 2 3 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Number			1-5 years	695
Nun		Under 1	1 : : : : : : : : : : : : : : : : : : :	
-			a in	
			Scarlet Fever Diphtheria Puerperal Fever Erysip-las Malaria A cute Primary Pneumonia A cute Influenzal Pneumonia Encephalitis Lethargica Ophthalmia Neonatorum Cerebro-spinal Fever Para-Typhoid Fever Measles Other forms of Tuberculosis Enteric Fever Dysentery Dysentery	
			all all berry Fry Fry Fry Fry Fry Fry Tru Tru	
			rer Feve inal oid oid ver	
			Ferria al II lass l'influite l'in	
			Scarlet Fever Diphtheria Puerperal Fever Erysip-las Acute Primary Pneumon Acute Primary Pneumon Cerebro-spinal Fever Masales Measles Other forms of Tuberculosis Other forms of Tuberculosis Dysentery Dysentery Puerperal Pyrexia	
			Scarlet Fever  Diphtheria  Puerperal Fever  Erysip-las  Malaria  Acute Primary Pneumonia Acute Influenzal Pneumonia Encephalitis Lethargica  Ophthalmia Neonatorum Cerebro-spinal Fever Para-Typhoid Fever Measles  Themonary Tuberculosis  Other forms of Tuberculosis  Enteric Fever  Dysentery   Dysentery	

#### Scarlet Fever.

240 cases of Scarlet Fever were notified, as compared with 369 in 1925. There was no evidence of any particular local spread of infection.

129 of the patients, or 53.7 per cent., were removed to the Isolation Hospital.

4 deaths of residents were registered as being due to Scarlet Fever.

1 patient notified as suffering from Diphtheria was found not to be suffering from the disease, but from Scarlet Fever.

Six return cases occurred.

No experimental work in connection with ascertainment of susceptibles or work in respect of immunisation has been undertaken.

# Table showing notifications, cases isolated, and number of deaths from scarlet fever during the years 1922-1926.

Year.	No. of cases notified.	No. of cases isolated in Hospital.	cases isolated in Hospital re		No- of deaths.	Deaths per 100 cases.
19	104	65	40.5	2	1	0.
192	150	82	41.7	0	1	0.
192	245	171	35,9	9	4	1.6
1925	369	190	37	10	4	
1926	240	129	38 6	6	4	1.0

#### Diphtheria.

The number of cases of diphtheria notified was 56, compared with 19 in 1925.

In 11 instances the patient was subsequently found not to be suffering from diphtheria.

10 deaths of residents of the City occurred, and the death-rate for this disease was 0.17 per 1,000 of the estimated population at all ages.

35, or 62.5 per cent., of the cases notified were removed to the Isolation Hospital.

No return case of diphtheria occurred.

No experimental work in connection with ascertainment of susceptibles or work in respect of immunisation has been undertaken.

# Table showing notifications, cases isolated, and number of deaths from diphtheria during the years 1922-1926.

Year.	No. of cases notified.	No. of cases isolated in Hospital.	No. of deaths.	Deaths per 100 cases.
1922	64	48	2	3.1
1923	87	46	10	11.5
1924	68	46	9	13.2
1925	19	7	2	10.5
1926	56	35	10	17.8

#### Anti-Diphtheria Serum.

41 applications were made by medical practitioners for the free supply of anti-diphtheria serum, 290,000 units having been supplied.

Table showing case mortality of Scarlet Fever and Diphtheria isolated in Hospital compared with that of Home Cases.

Ī	SCARLET FEVER.				DIPHTHERIA.				
	Hospital Cases.		Home Cases.		Hospital Canes.		Home Cases.		
	Year.	Cases	rate	No. of Cases Isolated.	rate	Cases	rate		rate
	1922	65	1:5	39	0.0	48	4.1	16	0.0
	1923	82	0.0	68	1:4	46	6.5	41	17.0
	1921	171	1.7	74	1:3	46	13.0	22	13.6
	1925	190	0.0	179	2.2	7	0.0	12	16.6
	1925	129	2:3	111	0.9	35	17:1	21	19.0

#### Smallpox.

The City was again free from smallpox during the year. Notifications were received from Port Sanitary

Authorities in respect of 5 families who had arrived in this country in a ship on which smallpox had occurred,

and who were proceeding to Carlisle.

On the 12th April, I received information from the Public Health Department at Gateshead-on-Tyne, that a boy aged 14, who had been staying in Carlisle, had been removed to hospital suffering from smallpox, immediately on his return to Gateshead. This boy during the later incubation period of the disease, whilst staying with friends here, had been in close contact with several families, amongst whom were unvaccinated children. All but two of the contacts were at once re-vaccinated after my interview with them, and fortunately none exhibited any evidence of smallpox.

On the 1st October I received a telegram from the Medical Officer of Health of Willesden that a resident of Carlisle had been in contact with cases of smallpox there, in a most infective stage, one of whom subsequently died. This contact, a young male adult, submitted himself to re-vaccination, and no evidence of smallpox was observed.

All contacts were kept under observation for about 20 days.

No vaccinations were undertaken during the year under the Public Health (Smallpox Prevention) Regulations, 1917.

Enteric Fever.

Para-Typhoid Fever.

Typhus or Continued Fever.

No notifications relating to these diseases were received during the year.

Table showing the average number of cases notified as enteric fever for 5-year periods, 1890—1924, and for the 2 years 1925-1926.

Years.	Average for periods of 5 years.	Year.	Number of cases notified.
1890-1894 1895-1899 1900-1904 1905-1909 1910-1914 1915-1919 1920-1924	21·2 18·6 12·6 3·2 3·8 1·4 2.2	1925 1926 	

#### Malaria.

2 notifications relating to patients suffering from malaria were received. In each instance the patient had been abroad on active service, and had been infected whilst abroad.

No case of malaria of indigenous origin has ever come to the notice of the Local Authority.

#### Dysentery.

1 case of dysentery was notified.

#### Pneumonia.

42 notifications of pneumonia were received during the year. In 8 instances the disease was stated to be of the acute influenzal type, and in 34 instances of the acute primary type.

All were investigated by the Health Visitors, and, were segregated at home, advice being given as to the nursing and prevention of infection to others. 67 visits by the Health Visitors were made in this connection.

In no instance was the patient removed to Hospital.

Death took place in 1 instance of the cases notified as influenzal pneumonia, and in 14 instances of those notified as primary pneumonia.

#### Influenza.

7 deaths of residents were registered as due to influenza, as against 21 in 1925.

### The age distribution of the deaths occurring among the 7 persons was as follows:—

0 to 1	l to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and up- wards	Total
				0 * 0	2	1		1	1	1	1	7

#### Encephalitis Lethargica.

1 case of encephalitis lethargica was notified. A post-mortem examination, however, showed the condition to be one of meningococcal meningitis.

#### Cerebro-Spinal Fever.

No case of cerebro-spinal fever was notified.

#### Tetanus.

No case of tetanus was notified.

#### Other Infectious Diseases.

Information relating to puerperal fever, ophthalmia neonatorum, measles, whooping cough, chicken-pox, and mumps, are given on pages 64—66.

#### Notification Fees.

The total amount paid in fees for notifications of all notifiable diseases during 1926 was £55 3s. 9d.

#### TUBERCULOSIS.

No change of importance has been made in the Authority's scheme during the year; the Friday afternoon clinic has, however, been discontinued, and all adult cases are now seen at the Tuesday afternoon clinic, and the clinics for Tuberculin treatment, previously arranged fortnightly on Tuesday mornings, are now arranged at intervals of ten days, on Tuesday and Friday mornings. These changes were made primarily with a view to giving the Tuberculosis Officer additional time for home visiting and other work in connection with the Dispensary.

Since the date of the issue of Memo. 37/T. by the Ministry of Health in regard to Statistical Returns, a complete revision of the registers has been in progress, and has now been completed, and the differences shown in some of the figures are more attributable to this revision than to any great change in the local conditions. It is to be noted that 48 cases were written off the Dispensary Register as cured; for 1925 this figure was 17. Some of

these cases should have been written off earlier, whilst others could have been written off earlier had the patients presented themselves for examination. 80 cases in which the diagnosis had not been confirmed were dealt with, in accordance with the instruction that doubtful cases which had not at the end of two months shown definite signs of tuberculosis should be considered as not tubercular. In this connection the number so dealt with in 1925 was 111. A number of the cases recorded as "diagnosis not completed" might also have been written off, but these are attending the Open-air School under supervision and, while not presenting any definite clinical signs of tuberculosis, are in fact probably suffering from the effects of tuberculisation.

With regard to the Notification Register, the number of cases at the beginning of the year was 778, and at the end of the year was as follows:—

Pulmonary ... Male, 157; Female, 156; Total 313 Non-Pulmonary ... Male, 43; Female, 45; Total 38

All cases, 401

The number of notifications of tuberculosis received during the year was 77, as compared with 113 in 1925, the decrease being chiefly in respect of notification on Form A, i.e., notifications by medical practitioners, which were 67 as against 95, and most marked in the age groups over 35 years, where the figures have fallen from 40 to 19. With regard to Form B., the decrease is marked in the age group 5—10 years, and in all cases the diminution is in respect of pulmonary tuberculosis, the figures being 60 as against 95. Six of the total notifications received were duplicates, and of the net primary notifications 61 were by medical practitioners and 10 by the Assistant School Medical Officers or Tuberculosis Officer. The number of cases of tuberculosis brought to the notice of the Medical Officer of Health otherwise than by notification was 19, as compared with 15 in the previous year.

The death-rate from all forms of tuberculosis is slightly higher, the increase being in respect of non-pulmonary tuberculosis, in which the number of deaths

was 15, as compared with 7 in 1925. 22.2 per cent. of the total deaths were in respect of cases concerning which no notification whatever had been received; in addition, 3.2 per cent. had died before receipt of notification. A further 8 per cent. died within a week of notification, so that in exactly one-third of the total deaths from tuberculosis the Local Authority had no opportunity to take any action. In view of the chronic nature of the vast majority of cases of pulmonary tuberculosis, the fact that only 50 per cent. of those persons dying survived more than three months after notification indicates what has been previously mentioned in these reports, viz:—Failure to notify until the patient has arrived at a very late stage of the disease.

The following table shows the relationship between the deaths from Tuberculosis and notifications for the past 10 years.

	Dea	iths	Notifi	cations
Year	Pulmonary	Non- Pulmonary	Lulmonary	Non- Pulmonary
1917	72	24	103	30
1918	48	19	109	28
1919	46	16	102	25
1920	36	15	111	24
1921	46	22	106	36
1922	50	14	91	14
1923	40	14	71	16
1924	49	20	104	20
1925	49	7	88	15
1926	48	15	55	16

With regard to the work of the Tuberculosis Dispensary, 130 new cases and 18 others, who were either transferred from another area or were re-discovered after having been lost sight of, were examined during the year. 85 were notified cases or cases suspected to be suffering from tuberculosis, and 45 were contacts. 54 of the 85 notified cases were found to be definitely tuberculous, 21 were classified as doubtful, and 10 were not suffering from tuberculosis. Of the 45 contacts, 5 were doubtful, and the remainder free from any evidence of active tuberculosis.

Of the 54 cases definitely tuberculous, 42 were suffering from pulmonary tuberculosis and 12 from other forms of the disease; 40 were adult cases, and 14 were children.

The number of persons on the Dispensary Register at the beginning of the year was 364, and of these 166 presented themselves for re-examination, so that the total number of persons under supervision during the year was 314. The total number of attendances at the Dispensary was 1326, of which number 270 were by insured persons, 63 by discharged soldiers, 864 by children of school age, and 129 by other categories, while 136 home visits were made by the Tuberculosis Officer.

Special treatment by means of Tuberculin (B.E.) was given to 41 children of school age, the total number of injections being 549.

The Tuberculosis Clinic was open on 177 occasions, the average number of persons attending per session being 7.5.

The Nurses visited the homes of all patients on the Tuberculosis Dispensary Register, and also all new cases notified to the Medical Officer of Health during the year.

The number of persons on the Dispensary Register at the end of the year was 334, in 48 instances the diagnosis being incomplete. Of the cases definitely diagnosed as tuberculosis 237 are pulmonary and 49 non-pulmonary.

90 specimens of sputum were examined, in 30 of which the tubercle bacillus was present.

Cod Liver Oil and Malt, and Virol were supplied in 34 instances, sputum flasks in 7 instances, and thermometers in 2 instances.

The average duration of residential treatment at the Sanatorium was 112 days.

## Residential Institutions.

A-AVERAGE NUMBER OF BEDS AVAILABLE FOR PATIENTS DURING THE YEAR 1926.

			Pulmonary Tuberculosis	Cuberculosis	Non-Pulmonary Tuberculosis	y Tnberculosis	
		Observation	"Sanatorium" Beds	" Hospital" Beds	Disease of Bones and Joints	Other	Total
			*				
Adnit Males		:	:		:	:	_
Adult Females	:	:	:	:	:	:	0
Children under 15	:	:	:			:	07
Total	•	:	:	:	:	:	

\* The Local Authority have a call upon 20 beds at the Blencathra Sanatorium, but there is no fixed agreement as to the number which shall be available for either sex, or for any fixed ages, or class of case, although this Institution strictly does not provide accommodation for what are called advanced cases.

1926.
THE YEAR
THE
DURING
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RESIDENTIAL
OF
BEXTENT

			In Institutions on Jan. 1.	Admitted during the year	Discharged dur-	Died in the Institutions	In Institutions on Dec. 31
	atlui	M.	œ	23	25		pr.
	δA t	ſz.	9	133	18	:	
Number of Patients	ldrer	N.	2		2		
		÷.	77	7	ಣ	:	9
	sam		:	:		•	:
Cases	bΑ ι		:	:	:	:	÷
	rərbi	M.					
	CP!	F.		:	:		:
	Total		18	44	48	1	1.3

## Work of the Dispensary.

		Pulmonary	опагу	9	4	Non-Pulmonary	monary			T	Total	
Piagnosis	Adults	lts	Children	ren	Adults	ılts	Children	lren	Adı	Adults	Children	lren
	M.	덛	M.	ᅜ	M.	돧	M.	포.	M.	=	M.	<u>F</u>
A—New Cases examined during the year (excluding contacts):—  (a) Definitely tuberculous  (b) Doubtfully tuberculous  (c) Non-tuberculous	61 61 61 61	14.	- m m	.ro ∞ 4	red : :		4 : :	4.62 ::	23	177 6 8 3 3	va co co	901
B—Contacts examined during the year:—  (a) Definitely tuberculous  (b) Doubtfully tuberculous  (c) Non-tuberculous	: 27 10	: r s		2	: : : !	: : :	: : :	: : :	. 02 10		:-=	: - : - : - : - : - : - : - : - : - :
C—Cases written off the Dispensary Register as (a) Cured (b) Diagnosis not confirmed or non-	27	14	6	0,	:	2	:	୍ଦୀ	12	1.6	6	
tion of cases notified in error)	9	13	32	29	:		:	:	9	133	32	29
DNumber of Persons on Dispensary Register on December 31st: (a) Diagnosis completed (b) Diagnosis not completed	3.5	92	16	44 20	ख	10	12 ::	188	76	86	62	62

Summary of Notifications of Tuberculosis from 3rd January, 1926, to 1st January, 1927.

# NOTIFICATIONS ON FORM A.

	Total Noti- fications on Form A.		28	200 41/-	67
-	0-1 1-5 5-10 10-15 15-20 20-25 25-35 35-45 45-55 55-65 & up-ary Noti-fications on wards. feations. Form A.		25	9 4 9	61
	65 T & wards.			: : :	-
tions.	55-65	İ	61	: : :	2
Number of Primary Notifications.	45-55		က	: - :	47
nary D	35-45				12
f Prin	25-35		10	2 : 22	15
nber c	20-25		10 10	: :	10 15
Nur	15-20		ıa		20
	10-15		7 6		m
1	55-10				4
	0-1 1-			: : :	2
	Ages.		: :	:::	:
	74		: :	: :	
			: .		
			Males Females	Males Females	Totals
			Pulmonary	Non-pulmonary	

# NOTIFICATIONS ON FORM B.

0
FORM
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ria.
Sanatoria.
Poor Law Institutions.
Noti- ons on m B.

		11		21	
Total Noti.			<b>→</b> 60	) (N 4)	10
rimiary ns.	Ages. 0-5 5-10 10-15 Total.		es	S1 4	10
Notifications.	10-15			0.00	5
Not	5 5-10		- co	: -	2
0-5			: :	: :	:
	Ages.		Males	Males	Totals
			Pulmonary	Non-pulmonary	

#### Supplemental Return.

New cases of tuberculosis coming to the knowledge of the Medical Officer of Health otherwise than by notification on Form A or Form B under the Public Health (Tuberculosis) Regulations, 1912.

Ages.	0-1	1-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55		65 and up- wards.	Total
Pulmonary— Males			• •		• • •	2	• • •	1	1		1	5
Females		•••	• • •			•••	2	•••		0 * *		2
Non-pulmonary Males		1			1		1	•••	1	1		5
Females	1	2	2		1					,	1	7
Totals	1	3	2		2	2	3	1	2	1	2	1

The total number of deaths of City residents registered from all forms of tuberculosis was 63, equal to a death-rate of 1.1 per 1,000 of the population at all ages. Of this number, 48 (76.1 per cent.) were due to pulmonary tuberculosis, equal to a death-rate of 0.8 per 1,000 of the estimated population at all ages.

## Distribution of the Deaths from Tuberculosis in the various Wards of the City, 1926.

	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	St. Cuthbert's	Caldewgate	Newtown & Brlle Vue	Carlisle
Pulmonary	ā	1	3	8	1	7	7	6	6	4	48
Non-pulmonary		2	2	3	1	2		2	3		15
Totals	5	3	5	11	2	9	7	8	9	4	63

## Age and Sex distribution of New Cases and Deaths from Tuberculosis, 1926.

Ages.	0-1	1-5	5-10	10 -15	15-20	20-25	25-35	35–45	45–55	55-65	65 and over.
New Cases.				ļ———							
Pulmonary— Male Female Non-Pulmonary— Male Female	-		2 4 1 2	1 2 2 3	5 	5	1 12  2	11 1	3	2	
Deaths.					3						
Pulmonary— Male Female			1	1 1	1 1	$\frac{1}{6}$	4 7	9	9 1	2	1
Non-Pulmonary— Male Female		2 3	3	•••	1		1		1 	1	 1

## Table showing the period persons dying in 1926 survived after notification.

	pd	re	in.		Survived more than								
·	Not Notified		Died within 7 days	1 week	1 month	3 months	6 months	9 months	l year	14 years	2 years	3 уевгв	4 years
Pulmonary Non-Pulmonary	4	1	2	41	3 <b>9</b>	30	24	23	20	16	9	8	4

## Deaths from Tuberculosis, Influenza, and other Respiratory Diseases, 1922-1926.

Year.	Pulmonary Tuberculosis.	Non-Pulmon- ary Tubercu- losis,	Tuberculosis, all forms.	Influenza.	Other Respiratory diseases.
1922	50	14	64	55	136
1923	40	14	54	7	89
1924	49	20	69	23	115
1925	49	7	56	21	100
1926	48	15	63	7	92

#### VENEREAL DISEASES.

During the year 176 persons residing in Carlisle, 122 of whom were males and 54 females, were under treatment or observation at the Clinic at the Cumberland Infirmary. This is a decrease of 20 persons upon the figure for 1925.

79 new patients attended for the first time, as compared with 97 for 1925.

73 patients were found to be suffering from syphilis, 2 from non-syphilitic chancre, 84 from gonorrhea, and 17 from conditions other than venereal disease.

1663 attendances were made by these patients, an increase of 240 on the figure for the previous year. In addition, 827 attendances were made by patients for intermediate treatment by irrigation. 419 doses of arsenobenzol compounds were administered to patients.

5 medical practitioners in the area are entitled to receive free supplies of arsenobenzol compounds, to whom these have been supplied for the treatment of 6 cases.

With regard to the examination of pathological material, in addition to the figures in the following table 36 specimens for Wassermann re-action were sent on behalf of medical practitioners to the Public Health Laboratory, Manchester.

No action has been taken in the area under the Venereal Diseases  $\Lambda$ ct, 1917.

#### Clinics.

Clinics were held on the same days and at the same hours as in the previous year, viz.:—for women and children on Mondays at 2-30 p.m. and Thursdays at 5-30 p.m. The male clinics for syphilis were held on Wednesdays at 2-30 p.m. and Thursdays at 6 p.m., and the male clinics for gonorrhæa on Wednesdays at 6 p.m.

New cases were seen at any of the clinics.

Return relating to all persons resident in the City of Carlisle who were treated at the Treatment Centre at the Cumberland Infirmary during the year ended 31st December, 1926.

	the year ended 31st December, 1926.														
al.	Ħ	59	-	27	27	54	H	00	, サー	ক	က	GT GT	7 7	473	
Total.	M	7.C 00	6	67	55	122	¢.	20	<b>o</b> , ∞	10	12	61	115	1190	
Conditions other than Venereal.	F		:	:	10	10		:	: :		:			15:	
Conditions other than Venereal.	M	:		:	1~	7		:	::	*	:	:	:	12 ::	
rhœa.	돈	=======================================		11	1-	18	,-	4	:-	-	-	1	18	188	
Gonorrhæa.	M	30	1	37	29	99		17	ıa :	2	10	ය වූ	99	602 824	
ft icre.	Fi		•			-	:			:	:	:	1	* *	
Soft Chancre.	M	:	•		_	-			::	:	pund	•	7	03 60	
ilis.	F	14	_	15	10	25		. es	4 :	ಣ	C1	13	25	270	
Syphilis.	M	28	2	30	18	48	0	1 က	တက	ಣ	<b>—</b>	29	48	574	
		1. Number of cases which—  (a) at the beginning of the year under report were under treatment or observation for (b) had been marked off in a previous year as having ceased (c) had been marked off in a previous year as having ceased	returned to the Treatment Centre during the year under report suffering from the same infection	Total-Items 1 $(a)$ and 1 $(b)$	2. (a) Number of cases dealt with at the Treatment Centre during the year for the first time	Total—Items 1 $(a)$ , 1 $(b)$ , and 2 $(a)$	of cases included in Item 2 (a) known to ha previous treatment at other Centres for the sai	3. Number of cases which ceased to attend— $(a)$ before completing the first course of treatment for	(b) after one or more courses, but before completion of treatment for	60	6. Number of cases discharged after completion of treatment and observation for	6. Number of cases which, at the end of the year under report, were under treatment or observation for	Total-Items 3, 4, 5 & 6	7. Out-Patient attendances— (a) For individual attention by the Medical Officer (b) For intermediate treatment. e.g., irrigation, dressings, etc	

#### Examinations of Pathological Material:-

	F'or	Detection of	Other	For Wasser
	Spirochœtes.	Gonococci.		
(a) Specimens which were ex-				
amined at, and by the	;			
Medical Officer of, the				
Treatment Centre		30	3	***
(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an				
approved laboratory	2	2	0.0 0	15 <b>9</b>

With regard to the joint scheme of the County Council and the City, during the year a total of 245 persons were treated at the treatment centre at the Cumberland Infirmary, Carlisle, of whom 124 were seen for the first time, the remainder being carried over from the previous year. 25 of these were found not to be suffering from venereal disease, leaving 220. The figure for 1925 was 238.

In the number of new cases of syphilis (40) there was a decrease of 1, and a decrease of 7 in the new cases of gonorrhea (56).

Areas in which			New	Total
Patients resided.			Patients.	Attendances.
Carlisle		* * 4	82	2,490
Cumberland			29	415
Westmorland			3	25
Dumfriesshire			6	164
London			1	1
Burnley			1	31
Roxburgh				9
Manchester			1	1
Sunderland			1	5
i)dirderittid	• • •	• • •		
			124	3,141

#### MATERNITY AND CHILD WELFARE.

1,218 notifications of birth were received during the year, 1,171 of which related to live births and 47 to still-births. 635 were notified by medical practitioners, 561 by midwives, and 2 were notified through other agencies. In 20 instances only did failure to notify occur.

#### Health Visitors.

The following Corporation Health 1925, the number of 1,018, and the number of	of visits t	to home	$\mathbf{s}$ being	g increa	sed by
Total number of h	omes visi	ited			12,602
Primary visits in co	nnection	with th	ie notif	ication	
of births .					1,202
Re-visits in connec	tion with	n the no	otificati	ion of	
births:—					
0—1 year			• • •	4,284	
1—2 years				3,186	
2—3 years				3,209	
3—4 years				2,935	
4—5 years				2,391	
					16,005
Total number of re					17,207
Visits to children					
persons other t					72
Visits to expectant	mothers-				
	• • •			201	
Re-visits				256	
					457
Visits in connection	n with—	_			2.0
Deaths of child					80
Ophthalmia Ne					32
					86
		• • •			113
Broncho-pneun					38
Acute Lobar a	nd Influe	enzal Pi	neumoi	nia	67
Measles			• • •		1,694
Whooping Cou			• • •		518
Chicken-pox					216
Mumps	• • •				15
Spina Bifida		• • •			7
Pemphigus Ne		l	• • •	• • •	5
Puerperal Fev	er		• • •	• • •	1

#### Inspection of Midwives.

During January, 19 certified midwives gave notice of intention to practice, and on various dates during the year 8 others notified their intention to practice, making a total of 27. 4 midwives left the City, and 1 gave up practice, leaving at the end of the year 22 midwives on the register.

These midwives attended a total of 480 confinements.

No case of puerperal fever occurred in the practice of a midwife.

Notices, in accordance with the rules of the Central Midwives' Board, were received in connection with the following conditions:—

Cases in which a midwife called for the assistance	
of a medical practitioner	122
Notification of the intention to substitute arti-	
ficial for breast feeding	27
Notification of still-births	6
Notification of having laid out a dead body	4
Notification of death before a doctor's arrival	3
Notification of liability to be a source of infection	1

The circumstances in which medical help was either obtained or advised are given as follows:—

#### Condition of Mother—

Ante-natal				• • •	7
Hæmori	chage			$\frac{5}{2}$	
Varicos	e Veins	• • •		2	(1)
During Lab					46
Delayed	Labour			20	
Malpres	sentation			4	
Miscella	neous			22	
Post-natal					35
Hæmor	rhage			4	
Ruptur	ed Perinenm			28	
Others	* * *			3	43.4
Condition of Chi	ld				34
Premat	urity			8	
Inflami	nation of the	Eyes		13	
Others			+ 1 1	13	

The following conditions for the substitution of artific			ie reas	sons
By doctor's orders, on account				
Debility of mother				4
Mother's milk insufficien				9
Condition of breasts or n	ipples			2.
No definite reason				1
				16
By midwives, on account of-				
Insufficient milk				4
Debility of mother				2
Disinclination of mother				4
Infant nursed out				1
				11
				TT
0.4				
64 visits, viz., 32 rout made to midwives for the pur own homes, and their bags, been regularly inspected.	cpose of	supervisi	on at	their
made to midwives for the pur own homes, and their bags, been regularly inspected.	pose of outfits,	supervisi and regi	on at isters	their have
made to midwives for the pur own homes, and their bags,	pose of outfits, followi	supervisi and regi ng matte	on at isters ers in	their have con-
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, vir	pose of outfits, followi	supervisi and regi ng matto al Midwi	on at isters ers in	their have con- soard
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, vir	pose of outfits, following Central c.:—	supervisi and regi ng matte al Midwi	on at isters ers in	their have con-
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, vir Failure to notify a birth	followie Centraliz.:— medica	supervisi and regi ng matto al Midwi  l help	on at isters ers in ves' B	their have con- soard
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, vir Failure to notify a birth Failure to notify sending for Inaccurate entries in form call Incomplete entries in the m	followie Centraz.:— medicaling for idwife's	supervisi and regions ng matte al Midwi l help medical register	on at isters ers in ves' B	their have con- soard
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of th were written to midwives, via Failure to notify a birth Failure to notify sending for Inaccurate entries in form cal Incomplete entries in the m Failure to notify the subs	followie Centraz.:— medicaling for idwife's	supervisi and regions ng matte al Midwi l help medical register	on at isters ers in ves' B	their have con- coard 2 2 4
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, via Failure to notify a birth Failure to notify sending for Inaccurate entries in form cal Incomplete entries in the m Failure to notify the subs feeding	following control of the control of	supervisi and regions and regions and Midwi I help medical register of artif	on at isters ers in ves' B help icial	their have con- coard 2 2 4
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of th were written to midwives, via Failure to notify a birth Failure to notify sending for Inaccurate entries in form cal Incomplete entries in the m Failure to notify the subs feeding  Failure to forward register	following for idwife's titution	supervisi and regions and regions and Midwi  l help medical register of artif	on at isters ers in ves' B	their have con- soard 2 2 4 5
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, via Failure to notify a birth Failure to notify sending for Inaccurate entries in form cal Incomplete entries in the management of the substantial feeding	following control of Centrol of Centrol	supervisi and regions and regions and Midwin  help medical register of artifich and Midwin	on at isters ers in ves' B help icial ves'	their have consoard
made to midwives for the purown homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, vironically a birth Failure to notify a birth Failure to notify sending for Inaccurate entries in form call Incomplete entries in the magnitude to notify the substantial feeding  Failure to forward register Re Meeting concerning Rules Board	following for idwife's titution of Central	supervisi and regions and regions and Midwi  l help medical register of artif cal Midwi	on at isters ers in ves' B help icial ves'	their have consoard 2 4 5 1 1 22
made to midwives for the pur own homes, and their bags, been regularly inspected.  Letters relating to the nection with the rules of the were written to midwives, via Failure to notify a birth Failure to notify sending for Inaccurate entries in form cal Incomplete entries in the management of the substantial feeding	following for idwife's titution of Central	supervisi and regions and regions and Midwi  l help medical register of artif cal Midwi	on at isters ers in ves' B help icial ves'	their have consoard

#### Home Nursing.

Under the arrangement with the Carlisle District Nursing Association the following conditions were attended to by their nurses:—

		No. o	f Cases.	No.	of Visits.
Measles	• • •		2		27
Pemphigus			1	• • •	7
Ophthalmia			1	• • •	35
Whooping Co	ugh		1		4
					<b>7</b> 3

#### Corporation Maternity Home.

172 patients received treatment in this institution, 9 of whom were admitted upon the request of medical practitioners.

1 maternal death occurred, which was due to eclampsia.

The following particulars relate to the work of the Maternity Home:—

In hospital on 31st December, 1925	 	2
Admitted during year	 	170
		172

Average duration of stay	11.9	days
Number of cases delivered by midwives		154
Number of cases delivered by a doctor		12
Total number of confinements		166
Number of cases treated ante-natally only		3
Number of cases treated during puerperium	only	2
Abortion		1

Number of cases in which medical assistance was specially indicated:—

Mothers—				1.0
Before Labour			• • •	16
Albuminuria		• • •	2	
Malpresentation			9	
Pelvic Contraction			$\frac{1}{2}$	
Heart Disease			9	- 1
Eclampsia			1	15
During Labour			• • •	15
Delayed Labour			7	
Placenta Prævia			1	
Hydrocephalus			1	
Malpresentation			4	
Accidental Hæmorrha	ige		2	
After Labour			• • •	30
Rupture of Perineum	1		23	
Raised Temperature			1	
Cardiac Disease			2	
Threatened Eclamps	ia			
Albuminuria			1	
Post-Partum Hæmor:	rhage		1	
Mastitis			1	
For Infant				14
Malformation			2 3 6	
${f Feebleness}$		0 0 0	3	
Artificial Feeding				
Slight Inflammation	of Eyes	• • •	3	
Number of Maternal Deaths				1
Still-births				100
Causes—			1	
Accidental Hæmorrh			1	
Placenta Prævia		• • •	1	
Hydrocephalus			1	
Malpresentation			3	
Maternal Condition-	–Albumir	шта	1	
	• • •		1	
			1	
No cause ascertained	• • •	• • •	1	
Died before 10 days	• • •	• • •	• • •	41

#### Causes-

Prematurity	• • •		2	
Hydrocephalus			1	
Eclampsia			1	
Total number of Fætal Deat	hs		• • •	14
Conditions necessitating the	substitu	ution of	f arti-	
ficial feeding for breast	feeding			4
Insufficient milk			1	
Mastitis		* * *	1	
Anæmia			1	
Ante-Partum Hæmo	rrhage		1	

#### Ante-Natal Clinic.

The number of attendances by expectant mothers was 584, or 113 more than last year. Of these, 186, 20 more than last year, were first visits of new patients.

Among the conditions in which medical attention or advice was given were the following:—Heart disease, bronchitis, rheumatism, anæmia, hyperemesis, dyspepsia, albuminuria, varicose veins, mastitis, uterine prolapse, pelvic contraction, malpresentation, hæmorrhage, hæmorrhoids, constipation, ædema, and old dislocation of the hip.

#### Infant Consultations.

At the clinics for children up to five years of age there were 736 attendances, or 33 more than in 1925, of which 264, or 58 more than last year, were attendances by new cases, and treatment or advice was given in the following conditions:—Malnutrition, injudicious feeding, prematurity, debility, marasmus, diarrhea, dyspepsia, constipation, teething, worms, hernia, rickets, bronchitis, suspected phthisis, anæmia, eczema, impetigo, ringworm, seborrhea, burns, squint, conjunctivitis, hordeolum, ophthalmia, nævus, otorrhea, enlarged tonsils, parotitis, phimosis, tongue-tie, cleft palate, stomatitis, fits, adenitis, pertussis, laryngeal spasm, congenital syphilis, cephalhæmatoma, brachial palsy, and minor injuries.

#### Voluntary Agency.

Babies' Welcomes and Schools for Mothers.

The co-operation with the voluntary centres continues as in former years, the Assistant Medical Officer paying a visit to one of the centres in each week. At this visit, after seeing as many individual children as may require attention, the Medical Officer gives a short informal talk, or asks the mothers themselves to suggest some subject on which they desire information, or encourages them to engage in discussion among themselves. There has been a gratifying increase in the number of first attendances of both mothers and babies. and also in the number of attendances of babies under one year of age.

		1	e	41	-1- of
The following is	a genera	d summ	ary or	the wo	ork or
the centres:—					
Number of sessions h	eld				168
Attendances of children				1.00	
First attendances				162	
Subsequent attender	dances			4,272	
Aged 0—1 year .				1,484	
Aged 1—5 years .					
			Total		4,434
Attendances of mother	ers—				
First attendances				136	
Subsequent atter				3,566	
Subsequent after	luances	• • •			3,702
C1 1 11			1000		0,
Classes and addresses	_			0.0	
${f Mother craft}$	• • •			96	
Hygiene				46	
Cooking				3	
<u> </u>			Total		145
	ner.				
H	EALTH V	ISITOR.			
Total number of hon	nes visit	ed			4,468
Primary visits to chil					334
Re-visits—					
				1 790	
<i>•</i>				1,738	
1—2 years	• • •			1,075	

2—3 years				1,024	
3—4 years				857	
4—5 years				1,029	
					5.723
Total number of	visits to e	hildren	• • •		6,057
Visits to expectar	nt mothers	S			
Primary	• • •	•••	• • •	4	
Re-visits		• • •	• • •	158	
Number of atten	dances at	Babies'	Welcomes	š	127

#### Free Provision of Milk.

During the year 2,710 gallons of milk were supplied free of cost to 220 families for the purpose principally of assisting the feeding of infants, and in a few instances to nursing mothers.

Previous to supplying the milk, careful investigation of the circumstances was made in each instance.

#### Still-Births.

The number of still-births notified during the year was 48, or 3 less than in 1925. Of this number, 5 were notified by midwives, concerning which the following particulars are available:—3 were full-time and 2 premature; in the case of the 3 full-time still-births no cause could be ascertained, and of the two premature still-births, in 1 case the mother suffered from albuminuria, and in the other no cause except prematurity was given. In 13 instances the cause of the still-birth was unascertainable; in 6 cases the delivery was instrumental, in 6 there was a malpresentation, and in 4 cases each the mother suffered from hæmorrhage or eclampsia, and in 2 cases from albuminuria. In 5 cases the child was very premature. In 2 cases the history of a fall or other strain was given, in 2 cases the children were twins, and in 1 case the mother's pelvis was contracted. There were also 2 monsters.

The bodies of 40 still-born children were given burial in the Carlisle Cemeteries.

I only of the still-births was illegitimate.

Table showing certain particulars regarding the 48 still-births.

		'Fotal.	Legitimate.	Illegitimate.	Male.	Female.	Full Time.	8 Months.	7 Months or less.
Maternal Conditions— Albuminuria Ante-Partum Hæmorrha Strain or Accident Eclampsia Pelvic Contraction	ge	2 4 2 4 1	2 4 2 4 1		2 2  3 1	2 2 1	1 2 1 1	1 1 1 3	1
Instrumental Delivery Malpresentation Hydrocephalus Anencephalus Twins Marked Prematurity Father a Plumber No cause ascertained		6 6 1 1 2 5 1 13	6 5 1 1 2 5 1 13	1	3 2  1 3  9	3 4 1 1 1 2 1 4	6 0 1 1 1 1	1	5

#### Infant Mortality.

The total number of deaths of infants under one year was 96; the number of deaths of residents was 95, which provides a net infant mortality rate of 81.9 per 1,000 of the registered births. If the figures are corrected by adopting the method suggested by the Registrar General, viz., taking as the denominator the sum of 70 per cent. of the current year's births, and 30 per cent. of the births of the previous year, the infant mortality rate for 1926 is 84.4 per 1,000 births registered. This would show a slightly higher infant mortality rate than that for 1925, which was the lowest ever experienced.

The death-rate due to diarrhea amongst infants up to one year was 10.4 per 1,000 registered births, as compared with 6.7 per 1,000 registered births in 1925, and is a rather higher rate than has prevailed for the past 4 years. None of the deaths occurred in July and August, so that the diarrhea probably in most

instances occurred as a terminal or inter-current affection, together with some other condition, rather than as the usual infective and epidemic type.

The number of deaths caused by prematurity, congenital defects, debility, and marasmus was 47, approximately the same percentage as in 1925 from the same defects.

Of the total infant deaths, 45, or very nearly one-half, occurred before the child was one month old. In the whole of England and Wales in 1925, the deaths occurring under one month comprised less than one-third of the total number of infant deaths; in Carlisle, therefore, these deaths in very early infancy appear to occupy a greater proportion of the total infant mortality. If such deaths could be reduced it would effect a greater improvement in the infant mortality, which even now compares favourably with that of county boroughs as a whole. No less than 20 infant deaths occurred before the child was a day old, nearly all of which were from prematurity, and before the tenth day 14 further deaths occurred, or more than one-third of the total number of infant deaths. The number of deaths from bronchitis and pneumonia was 15, the rate per 1.000 being 12.9, compared with 15.3, as in 1925.

There was an increase in the number of deaths from zymotic diseases; 5 being caused by whooping cough, as compared with 4 in 1925; and 6 by measles, as compared with none in 1925.

The number of deaths caused by diarrheal diseases was 12, as compared with 7 in 1925. There was 1 death from tuberculosis, as compared with 2 in 1925; and none from meningitis, as compared with 2 in 1925.

The illegitimate death-rate is again low, being only two-thirds that of the legitimate death-rate, whereas the experience in the country as a whole is that the illegitimate death-rate is about twice as great as the legitimate death-rate. These figures are a satisfactory reflection of the care that is directed towards the welfare of nurse children in the town.

Infant Mortality,

with deaths from stated causes, at various ages and in various seasons, of children under one year of age. eaths) under 494500000 50 16 10 0 6 December, 20 November. 10 October. 1 gebtemper. 00 00 August. S Anth. MONTH. enn c 6 May. Ċ. 00 April. 13 ујукср. February. : 00 10 10 Aaunuap. underl? Months. 14 bus satuoM 9 under 9 Months. ঝ bas satuoM 6 under 6 Months. 15 16 3 Months and Months. 10 -16 4 Weeks & under AGE. 4 W 66KS. 45 Total under 3-4 Weeks. 9 3-3 Меекв. 1-2 Меекв. 27 200 Under I Week. Venereal Other Defects of Early Infancy Atrophy, Debility & Marasmus Enteritis and Gastro Enteritis Totals CAUSE OF DEATH. Uncertified Tuberculosis (all forms) Certified Preumonia (all forms) other Whooping Cough ... Status Lymphaticus Congenital Defects Acute Mastoiditis Syphilis and Bronchitis ... Prematurity Convulsions Diseases Causes. Measles

## Rates of Mortality among Infants at various ages, and from the principal causes, per 1,000 births.

				AGES.					CAU			
	ate.						Not Preventable.   Preventable.					
Year	Nett Infant Mortality Rate.	Under 4 Weeks	4 Weeks and under 3 Months	3 Months and under 6 Months	6 Months and under 9 Months	9 Months and under 12 Months	Premature Birth	Atrophy, Debil- ity & Maraemus	Congenital Malformations and Atelectasis.	Diarrhea and Enteritis	Bronchitis and Pneumonia	Whooping
1909	123.6	47.9	26.1	20.9	14.8	13.9	21.7	17.4	7.0	20.9	13.1	4.4
1910	109.1	41.9	19.1	21.0	15.7	11.4	28.8	13.1	5.2	12.2	14.8	4.4
1911	145.0	45.0	27.0	27.0	25.2	20.8	18.0	12.6	4.5	37.9	26.1	9.0
1912	102.4	42.0	15.8	16.6	17.5	10.5	15.8	15.8	9.6	9.6	21.9	6.1
1913	127.1	49.8	17.2	27.5	19.0	13.7	28.4	12.9	6.0	19.0	18.0	3.4
1914	122.4	48.0	25.6	21.5	15.7	11.6	19.8	15.7	5.6	20.7	18.2	5.8
1915	144.3	51.2	30.2	26.8	14.3	21.8	30.2	12.6	5.9	15.9	20.1	10.1
1916	101.5	47.1	13.6	16.3	15.4	9.1	27.2	7.3	8.1	17.2	14.5	0.0
1917	106.5	39.4	16.1	23.3	15.2	12.7	20.6	7.2	10.8	24.2	10.7	1.8
1918	126.8	38.7	17.4	26.1	30.0	14.5	22.3	10.6	4.8	14.5	25.2	19.4
1919	107.9	45.9	17.8	18.8	13.1	12.3	19.7	22.5	9.4	13.1	20.6	0.0
1920	80.0	30.2	13.4	19.3	10.5	7.0	16.1	11.9	9.1	8.6	13.3	3.5
1921	105.3	38.2	17.5	23.7	16.8	9.1	11.4	17.5	9.1	22.1	13.7	2.3
1922	81.2	35.5	11.0	14.2	7.9	12.6	17.4	8.7	6.3	5.5	15.8	2.4
1923	82.9	39.7	11.0	7.6	14.3	10.1	29.6	5.0	6.7	7.6	11.8	0.8
1924	95.0	30.5	23.3	10.7	18.8	11.7	17.0	9.9	6.3	5.4	26.9	3.6
1925	78.4	37.3	15.3	3.8	9.6	12.4	26.8	4.8	9.6	6.7	15.3	<b>3</b> .8
1926	81.9	38.8	13.8	13.8	3.4	12.1	20.7	6.0	13.8	10.4	12.9	4.3

#### Infant Mortality Rates for the various Wards, 1918-1926.

That Mortality Mates for the Various Variation 10 10 10 10 10 10 10 10 10 10 10 10 10											
Year	Stanwix & Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	St, Cuthbert's	Caldewgate	Newtown & Belle Vue	Carlisle
1918	108.7	141.2	135.4	101.7	94.9	93.8	125.0	193.3	156.2	97.2	126.8
1919	81.6	97.8	123.3	83.9	125.0	65.4	160.6	119.0	115 1	65.8	107.9
1920	46.5	77.5	54.3	100.0	68.6	57.4	81 6	113.2	87.0	78.4	80.0
1921	23.8	150.7	91.7	174.6	86.9	62.0	105.2	62.5	158.4	56.8	105.3
1922	50.8	47.6	84.0	75.7	102.9	90.9	98.7	65.7	78.5	112.5	81.2
1923	163.2	79.6	64.0	82.6	77.5	44.9	73.0	64.1	141.0	107.6	82.9
1924	68.9	96.7	150.0	36.6	81.4	93.4	55.1	130.0	158.8	36.1	95.0
1925	85.1	70.1	66.6	90.9	78.2	37.3	101.5	59.3	97.0	92.7	78.4
1926	30.3	75.7	79.4	71:4	66.6	55.5	112.7	76.9	116.7	112.1	81.8

Infant Mortality in Relation to the Mode of Feeding.

The following table shows the deaths of infants under one year in relation to the mode of feeding:—

Gai										
	Mortality Rate per 1,003 so fed.	37.0	116.3		119.8	0.0		1,000.0	1,000.0	71.4
eaths.	Total.	33	15		20	0		2	24	
Number of Deaths.	Illegitimate.	0	0		2	0		0	จา	0
Numpe	Legitimate.	32	15		18	0		2	22	
Fed.	Total.	865	129		167	က		C3	24	14
Number 80	.edantitinate.	31	6		27	0		0	7	0
Num	Legitimate.	834	120		140	ಣ		2	22	14
-		:	:		:	:		:	:	:
		:	:		:	:		:	:	:
	Ö	:	:		:	:		:	:	:
	KEDI		Bottle		:	÷		:	•	:
	MODE OF FEEDING.	Breast	Breast and partly	Bottle—	(1) Boat-shaped	(2) Tube bottle	Debilitated Infants-	(1) Spoon-fed	(2) Unable to be fed	No information re feeding

Death-rates per 1,000 among infants under 1 year, classified according to the Method of Feeding, 1917-1926.

		Average Mortality Rate,	102.5	44.7	223.7	306.0
	15 years.	Total No. of Deaths.	1800	611	232	564
		Total No. of Children.	17551	13654	1037	1843
		1926	81.9	37.0	116.3	117.6
		1925	78.4	49.4	155.3	45.0
		1924	95.0	522.4	181 2	117.6
		1923	82.9	33.8	141.7	117.1
1311-11270		1922	81.2	38.4	1520	212.5
101		1921	105.3	9.68	407.2	229-2
		1920	80.0	35.1	171.7	209.8
		1919	107.9	44.5	378.4	230.3
		1918	126.8	49.6	122.2	520.4
		1917	106.5	25.3	515.1	324.3
		Mode of Feeding.	Total infant mortality rate	Mortality rate for breast-fed infants	Mortality rate for infants partly fed on breast and partly on bottle	Mortality rate for infants fed by bottle

#### Infant Mortality and Rainfall.

Year.	Rainfall in Inches.	Number of days on which rain fell.	Infant Mortality.
1909	33.13	162	123.6
1910	29.64	197	110.0
1911	30.20	181	145.0
1912	30.01	217	102:4
1913	27.53	194	127 1
1914	28.31	201	122.4
1915	28.28	183	144:3
1916	38.97	228	101:5
1917	29.13	176	106.5
1918	33.65	190	126.8
1919	25.21	191	107.9
1920	32.11	211	80.0
1921	29.83	205	105:3
1922	28:55	209	81.2
1923	36.53	231	82 9
1924	35.11	210	95.0
1925	32.17	189	78.4
1926	34.70	201	81.9

#### Illegitimacy.

The number of illegitimate births registered was 69, or 59.5 per 1,000 registered births, being 5.9 per 1,000 greater than the figure for 1925. The number of deaths amongst these children was 4, or 58 per 1,000 illegitimate births. The deaths of legitimate children numbered 91, or 83.5 per 1,000 legitimate births. The Health Visitors paid 72 visits to children nursed or maintained by persons other than the parents.

#### Puerperal Fever and Puerperal Pyrexia.

5 notifications relating to puerperal fever were received, and 2 of these patients died. In one of these, however, the Assistant Medical Officer, who saw the case with the patient's own doctor, was of the opinion that the death was due to primary pneumonia, the patient having shown symptoms of this illness before the confinement, which appears to have been in all respects normal. In the

other instance the confinement had been a difficult one, involving the use of instruments, which caused some laceration.

Of the other 3 notified cases, 1 was probably gonorrheal in origin, the symptoms being slight, and the other two were cases of phlebitis who ultimately made a good recovery.

3 notifications relating to puerperal pyrexia were received.

#### Ophthalmia Neonatorum.

10 cases of ophthalmia neonatorum were notified. 6 cases were notified by medical practitioners, and 4 by midwives. The discharge was purulent in 9 instances, and in the remaining instance, in which the case was notified by a midwife, the symptoms were so slight as to warrant the case not being classified as a true ophthalmia.

In 7 instances both eyes were affected, and in the remaining 3 cases only one eye was affected.

8 of these children survived, and there was no permanent damage to the eyes. The remaining 2 infants died of a concurrent disease while under treatment for the eye condition.

In connection with these cases, the Health Visitors of the Corporation paid 32 special visits to affected babies, in order to ensure arrangements for appropriate treatment.

In 1 of the fatal cases the child was admitted to the Cumberland Infirmary for treatment, and in two other instances the children were treated at that Institution as out-patients, in one of which, however, the nurses of the District Nursing Association treated the eyes in the intervals between the attendances at the Infirmary. In the other fatal case, the ophthalmia was attended to by the nurses of the District Nursing Association under the scheme of the Local Authority, and in one instance the

condition was treated at the Corporation Infant Clinic. One baby was an inmate of Fusehill Poor Law Infirmary, and in the remaining 4 instances, which showed only slight symptoms, treatment was received at home under the direction of the medical practitioner in attendance.

Noti-			Vision un- impaired	Vision impaired	Total Blind- ness.	Deaths during treatment.	Remarks.
10	8	2	8	Nil.	Nil.	2	

#### Infectious Diseases.

The Health Visitors paid 2,443 visits to cases of zymotic diseases, in addition to their visits to children suffering from gastro-enteritis, ophthalmia neonatorum and pneumonia, and the cases of puerperal fever and puerperal pyrexia, the number of visits in this connection being nearly twice as many as in 1925.

#### Diarrhœa.

There were 21 deaths from diarrhæa during the year, and the Health Visitors paid 90 visits in connection with cases of diarrhæa and gastro-enteritis.

The following table shows the age incidence: -

Age.		No. of	Deaths.
0— 1 year	 		12
1— 2 years	 		2
2— 5 years	 		
5—15 years	 		_
15—25 years	 		
25—45 years	 		1
45—65 years	 		4
Over 65 years	 		2

21

#### Poliomyelitis.

No notification relating to poliomyelitis was received during the year.

#### Deaths among Children aged 1-5 years.

48 deaths occurred among children aged 1—5 years from causes detailed hereunder:—

Whooping Cough				6
Measles				10
Diphtheria				5
Scarlet Fever			4	2
Pneumonia & Bron	rcho-Pi	reumonia -		11
Tubercular Mening				4
Abdominal Tuberc	ulosis			1
Gastro-Enteritis				2
Other Diseases				7
				48
				-

The chief feature as regards the deaths of children aged 1—5 years was the increase during 1926 of deaths from zymotic diseases.

### HYCIENE OF PLACES OF PUBLIC ENTERTAINMENT.

The visits made in this connection will be found on pages 76 and 82.

#### REPORT OF THE VETERINARY INSPECTOR.

During the year 152 newly-purchased cows were examined in the several byres of the City, amongst which the following conditions were found:—

Poor condition		 	3
Septicæmia	• • •	 	2
Enlarged gland	in throat	 	1
		-	—
			6

All 6 animals were returned to the sellers.

The bovine animals exposed for sale at the Sands Cattle Market, and also at the Auction Marts, were examined, a total of 69,086 examinations being made.

The Auction Marts were visited each Monday in the year, and 14,905 pigs were examined.

194,501 sheep were also examined during the year.

A total of 3,326 examinations of milk cows were made in the several byres of the City in order to ascertain the presence of disease likely to affect the milk supply, in the course of which the following conditions were found:—

Gastric derangement	 	 1
Milk fever	 	 1
Chill	 	 3
Defective udder	 • • •	 2
Septicæmia	 	 2
Abortion	 • • •	 4 2
Mastitis	 • • •	 ~
		15
		1.43

The milk from these 15 animals was destroyed until convalescence was established.

One cow died from internal hæmorrhage following calving.

Intimations of the sudden deaths of two pigs were received, and post-mortem examination revealed in each instance heart disease as cause of death.

During the evening of 25th May an intimation was received that the carcases of 86 pigs out of a cargo in which carcases affected with foot and mouth disease had been found, had arrived in the City. The feet and heads of the 86 pigs were examined and evidence was found of foot and mouth disease, which was subsequently confirmed by an Inspector of the Ministry of Agriculture and Fisheries.

The cattle, sheep, and pigs in the surrounding neighbourhood were dealt with in accordance with Form D. of the orders of the Ministry of Agriculture and Fisheries.

This stock was examined every second day; a total of 1,043 examinations were made.

On 21st April I was informed by the Medical Officer of Health that a sample of milk from a dairy outside the City had been found to contain tubercle bacilli. On 24th April I accompanied the Veterinary Inspector for the Cumberland County Council to the farm, when 46 dairy cattle were examined; 3 cows were found to be affected with disease of the udder, and they were removed from the byres. Samples of milk were taken and submitted to bacteriological examination and notices under the Tuberculosis Order, 1925, were served on the owner prohibiting the use of the milk.

During the year 39,210 imported cattle passed through the Sands Authorised Market, in connection with the movement of which 2,252 licences in quadruple have been issued by the Police.

On November 1st notice was received that two pigs had been found dead in piggeries inside the City boundary. On visiting the piggeries I found there 89 live pigs and 2 carcases of pigs. On examination I found 13 pigs to be ailing. The matter was reported to the Ministry of Agriculture and Fisheries, whose Inspector confirmed Swine Fever to be in existence. The usual order was served on the owner by the Police.

#### Tuberculosis Order, 1925.

10 cows have been dealt with under the above Order.

#### Animals (Landing from Ireland) Order, 1922.

940 examinations have been made of animals detained under the above Order.

At the request of the Medical Officer of Health and Chief Sanitary Inspector I made post-mortem examinations at the Public Slaughter-houses on 1 carcase of pork and 3 carcases of beef, all of which I certified to be unfit for human food.

## Chief Inspector's Annual Report.

To the Chairman and Members of the Health Committee. Ladies and Gentlemen,

I have the honour to submit my Annual Report upon the work of the Sanitary Inspectors during the year 1926.

HOUSING.

90 houses were specially inspected, and particulars recorded under the Housing Acts during the year. These houses constitute an area which is bounded by Robert Street, South John Street, Currock Street, and Water Street, and which is adjacent to the recently improved Crown Street area.

It was ascertained that the block contains:-

22 one-roomed houses

46 two-roomed houses

16 three-roomed houses

5 four-roomed houses

1 five-roomed house

90

Included in this number are two shop premises.

The density of the particular area is not so great as the Crown Street area referred to, being 86.4 houses to the acre, and averaging 1.77 persons per room. Yet serious overcrowding was found in 13 cases, and some of the houses are unfit.

It is not suggested that this area should be dealt with by an improvement scheme, but to apply the Repair Sections of the Acts as far as possible.

A report was presented to the Committee in November last, giving information regarding the situation and description of some 434 houses, comprising 46 different properties in the City, and containing certain recommendations relative to the action which should be taken to bring about an improvement, and it was decided that the Health Committee visit the properties enumerated therein early in the New Year.

36 new houses were built at Peel Street, expressly for the accommodation of 38 tenants de-housed under an Improvement Scheme in Queen Street and Rigg Street, and much work was entailed in effecting exchanges on behalf of those tenants who were unable or unwilling to take new houses directly.

Only 6 of the families concerned elected to take new houses, leaving 32 to be housed by the method of exchange referred to in last year's report.

24 houses were erected on the Currock Estate in connection with the demolition scheme for South George Street and South John Street. Of the 36 tenants who were living in the houses demolished in this area, only 5 occupy the new houses, the remaining 31 families being accommodated elsewhere by means of an exchange of house through the efforts of your Inspectors. Several families from the demolished houses in the Crown Street area were, however, also living in this block prior to demolition, and considerable difficulty was experienced in re-housing these tenants a second time, as in some instances private owners were very unwilling to accept them as tenants.

The property upon the two sites referred to (numbering 74 houses) has been demolished, and the sites cleared and fenced in.

4 houses belonging to the Corporation, in Rayson's Court, Drovers Lane, and Highland Laddie Lane were demolished. 8 houses on the West Walls side and 4 at the Caldewgate side have been demolished in connection with the widening of Caldew Bridge.

#### NUISANCES AND DRAINAGE.

The number of nuisances investigated by members of the staff was 685, of which 107 were in respect of complaints received, the remainder being located by the Inspectors.

340 notices were served, and at the close of the year 35 matters were still on the books.

13 new drains were laid under my supervision, and 16 repaired. The number of drains inspected was 1,006, and in addition 91 tests, either olfactory or water, were applied.

#### CONVERSION TO WATER CARRIAGE SYSTEM.

In consequence of statutory notices, 20 pail-closets were converted into water-closets at Greystone and 2 at Botcherby, and 3 new water-closets were erected without notice.

During the year 29 statutory notices were served, requiring conversions from middens and pails at certain railway properties. These works are not yet executed.

#### VAN DWELLINGS.

The usual inspections of van dwellings at the Sands and one or two other places were made, and, with the exception of frequent verbal notices to occupiers respecting fouling of adjacent ground, no faults were found.

#### COMMON LODGING-HOUSES.

There is no registered common lodging-house in the City, the only known lodging-house where men are received for short periods being the one owned and controlled by the Corporation, viz., Lowther House, situate at Drovers Lane.

#### STABLE PREMISES.

The number of inspections was 243, there being approximately 120 stable premises in the City.

#### FACTORIES AND WORKSHOPS.

On the register there are at present 287 workshops. Of these, 71 are what are known as "domestic" workshops, and 75 bakehouses, 3 of which are underground. One bakehouse was enlarged and improved during the year, and the general standard of cleanliness was good.

The number of factories in the City is approximately 90. There were 586 visits paid to factories and workshops.

We have received only one notice from His Majesty's Inspector of Factories relating to a nuisance remediable under the Public Health Acts. This was subsequently remedied.

There were structural repairs executed at 2 premises where meat preparations are made.

### SMOKE NUISANCES.

Many observations of black smoke emitted from factory chimneys were made, and in two instances informal action was taken on acount of temporary nuisances created by the burning of inferior fuel during the coal strike.

Complaints were prevalent concerning the nuisance from Engine Sheds on the north side of the City, and the matter was again taken up, with some success, with the Railway Engineer's Department.

During the year a special report was made by the Medical Officer of Health and myself to the Health Committee concerning the cause, prevalence, etc., of black smoke from factories in the City. In the preparation of this report all the factories were visited, and particulars ascertained and recorded as to type and capacity of boilers and the means (if any) of preventing black smoke.

## INSPECTION OF MEAT AND OTHER FOODS,

The amount of meat condemned during the year as unfit for human consumption was 27 tons 17 cwts. 2 qrs. 1 lb. Particulars of this and other miscellaneous foodstuffs found to be unfit for food are contained on page 76. There was an increase of some 4 tons of meat condemned over the figure for 1925. This is partly due to the number of diseased carcases under the Tuberculosis Order, 1925, slaughtered at the Abattoir by arrangement with the County Council.

In October legal proceedings were taken under the Public Health Acts, 1875 and 1890, in respect of 140 unsound eggs sold in the Public Market. The vendor was fined £10 and costs.

## **SLAUGHTER-HOUSES.**

There are no private slaughter-houses in the City, but two slaughter-houses are licensed for the special purpose of slaughtering sheep for the London and other markets, and one for the occasional slaughter of pigs at a Bacon Factory.

The Public Slaughter-houses, owned and controlled by this Department, have been kept satisfactorily. A table

showing the number and nature of the animals killed is given on page 78.

687 inspections were made to these slaughter-houses.

## DAIRIES, COWSHEDS, AND MILKSHOPS.

There are 19 registered producers of milk in the City, and 34 cowsheds are in use. A total of 78 inspections were made to these milk-producing premises.

There are on the register 61 purveyors of milk, 43 of whom reside in the City; in addition there are 15 milkshops. Frequent inspections are made to milkshops and retailers' premises, a total of 142 such inspections being made during the year.

One cowshed was supplied with town's water, and one milk retailer's premises improved during the year.

### FRIED FISH AND POTATO SHOPS.

There are 34 vendors of fried fish and chipped potatoes on our register, as compared with 33 the previous year. The trade is carried on satisfactorily. At 2 shops, which changed occupation, the premises were improved. 215 inspections were made to these premises.

## ICE CREAM SHOPS.

18 persons are on the register of ice-cream retailers, although in addition, the trade is carried on in a small way at restaurants, etc. The premises in which this commodity is sold are under frequent supervision, and the trade is conducted in a satisfactory manner. The premises of 4 retailer were improved by the removal of an inside drain, and the introduction of ventilation.

## FOOD AND DRUGS ACTS.

A total of 165 samples were purchased during the year under the above Acts, and full particulars of the nature of the samples and results of the analyses will be found on page 77. Of the 8 samples which were adulterated, 7 of the vendors received cautions, and one milk vendor was prosecuted in connection with a sale of milk deficient in milk fat. The case was dismissed.

### OFFENSIVE TRADES.

The number and description of these trades is the same as in previous years, viz., 2 tripe boilers, 1 gut scraper, 1 tanner, and 1 fellmouger.

During the year a licence was granted under the provisions of Section 51 of the Public Health Acts Amendment Act, 1907, in respect of premises to be used as a depot for the reception during certain hours of the day of hides, skins and fat.

No complaint of nuisance was received respecting any of these trades during the year.

### URINALS.

The public urinals in the City, 19 in number, including the underground lavatories, are cleansed under the supervision of this Department. During the year 1 urinal was demolished and rebuilt, and two more are in process of being rebuilt.

## REFUSE REMOVAL.

The removal of household and trade refuse is carried on as in previous years, *i.e.*, trade refuse is removed daily, and household refuse twice and thrice weekly, according to district. The whole of the refuse is disposed of by tipping at various tips, which are well kept.

During the year 21,251 loads of refuse were disposed of.

A special report is being submitted to the Committee on the S.D. Freighter, along with the recommendation to purchase two more Freighters of the same class.

The garbage from the Public Slaughter-houses was also disposed of by tipping, and amounted to 530 loads.

## DEPOT.

In connection with the work of refuse removal and scavenging there are 20 horses kept at the Depot, compared with 19 in 1925. During the year 3 horses were bought and 2 sold. There is also garaged at the Depot one S.D. Freighter, employed in the removal of house refuse.

### SHOPS ACTS.

In connection with the administration of these Acts 826 day and evening inspections were made. No legal proceedings were taken, but verbal cautions, respecting small breaches of the Act were given in a few instances.

## INFECTIOUS DISEASE AND DISINFECTION.

326 cases of infectious disease were investigated during the year, and 167 of these were removed to Hospital. The number and description of articles of bed clothing, &c., disinfected are given on page 78.

## RAT REPRESSION.

In consequence of complaints respecting rats on premises, 15 visits were made, and in some instances the drains tested, and advice given.

1,583 rats were received at the Depot during the year for which 2d. per head was paid.

## HYCIENE OF PLACES OF PUBLIC ENTERTAINMENT.

Both day and night visits were made to the Picture and other entertainment halls at intervals. At one hall an improvement was made in the approach to and means of indication of a ladies' lavatory.

## DISEASED AND UNSOUND FOOD.

The following table shows the amount of food seized or surrendered as being unfit for human consumption:—

Nature of Food Condemned.				Quantity.				
					Tons.	Cwts.	Qrs.	Lbs
Beef					25	2	0	9
Mutton			***		1	3	1	26
Pork					1	0	3	25
Veal					0	10	3	25
			Total		27	17	2	1
Tinned Meats					6	12 lbs		
Pears						$2\frac{1}{2}$ box	ĸes	
Kippers						1Ō ,,		
Flounders						3 ,,		
Herrings						1 .,		
Eggs					2	08		

## SALE OF FOOD AND DRUGS ACTS.

Table showing articles purchased during the year, with results of analyses and remarks as to action taken thereon.

fileren	13				
Article.	No. of Samples.	No found to be Genuine.	Number Adulter- ated.	Extent and Form of Adulteration.	Remarks.
Milk	52	48	4	a. Non-fatty solids 0.13% below limit	Vendor cautioned.
				b. Milk fat 0.35% below limit	Samples b and c,
				c. Milk fat 0·10% below limit	from same source. Vendor cautioned.
				d. Milk fat 0.21% helow limit	Vendor proceeded against. Case dismissed.
Butter	21	21	• • •		
Cream	11	10	1	Contained 0.10%	Vendor cautioned
Coffee	4	4		Boric Acid	re labelling.
Olive Oil	5	5		•••	
Fruit Wines	5	5			
Jams	6	6			
Fruits	14	14			
Sausages	11	10	1	Contained 1.30%	Vendor, cautioned.
Icing Sugar	3	3		Boric Acid	
Baking Powder	5	5		•	
Lard	5	5			0,91.
Ground Ginger	5	5			
Ground Cinnamon	6	6			
Ground Mace	6	6			
Swect Nitre	6	4	2	a Deficient in Ethyl	Vendor oantioned.
No. of Samples	165	-		Nitrite 5:40% b Deficient in Ethyl	Vendor cautioned.
No. Genuine		157	-	Nitrite 14.00%	
No. Adulter-				-	
ated		1	8		

# The following Tables give the number of animals killed annually during the past five years:— PUBLIC ABATTOIR.

		Sheep and							
Year.	Beasts.	Lambs.	Calves.	Pigs.	Total.				
1922	3,512	16,294	518	4,711	25,035				
1923	4,028	13,249	768	4,644	22,689				
1924	4,106	14,385	436	5,896	24,823				
1925	4,343	13,814	372	5,775	24,404				
1926	4,478	14,889	285	4,712	24,364				
1020	.,			,					
L.M.									
1922		10,790			40,790				
1923		26,121		• • •	26,121				
1924		39,427			39,427				
1925		48,279			48,279				
1926	• • •	46,745		1	46,745				
	N.E. RAIL	WAY SL	AUGHTI	ER-HOL	JSE.				
1922		55,926	1		55,926				
1923		39,897			39,897				
1924		64,811			64,811				
1925		79,906			79,906				
1926		72,232			72,232				
	HARRAB	Y BAGUN	FAUL	UKT.					
	HARRAB	Y BAGUN	FAGI	UK T.					
1926	HAKKAB		FAGI	248	248				
1926	HARKAB	BAGUN		]	248				
1926				]	248				
	REI	USE REM	MOVAL.	248	248				
	REI Loads of	- USE REN House Re	MOVAL.	248					
	REI Loads of Tips		MOVAL. fuse rem	248 oved to	21,251				
	REI Loads of Tips Loads of	FUSE REN House Re	MOVAL. fuse rem	248 oved to					
Number of	REI Loads of Tips Loads of	FUSE REN House Ren f Slaughter	MOVAL. fuse rem	oved to	21,251				
Number of	REI Loads of Tips Loads of	FUSE REN House Re	MOVAL. fuse rem	oved to	21,251 530				
Number of	REI Loads of Tips Loads of Cases of	FUSE REN House Ren f Slaughter ISINFECT Infectious	MOVAL. fuse rem r-house (	oved to arbage Investi-	21,251				
Number of	REI Loads of Tips Loads of Cases of	FUSE REN House Ren f Slaughter ISINFECT	MOVAL. fuse rem r-house (	oved to arbage Investi-	21,251 530 326				
Number of	REI Loads of Tips Loads of Cases of Cases of to H	FUSE REM House Rem f Slaughter ISINFECT Infectious Infectious Infectious Infectious	MOVAL. fuse rem r-house ( TION. Diseases	oved to darbage Investi	21,251 530 326 167				
Number of	REI Loads of Tips Loads of Cases of Cases of to H	FUSE REN House Ren f Slaughter ISINFECT Infectious	MOVAL. fuse rem r-house ( TION. Diseases	oved to darbage Investi	21,251 530 326 167 46				
Number of	REI Loads of Tips Loads of Cases of gated Cases of to H Mattresse	FUSE REM House Rem f Slaughter ISINFECT Infectious Infectious Infectious Infectious	MOVAL. fuse rem r-house ( TION. Diseases Diseases S Disinfe	oved to darbage Investi	21,251 530 326 167 46 85				
Number of	Loads of Tips Loads of Cases of to H Mattresse Bolsters	FUSE REN House Ren f Slaughter ISINFECT Infectious I Infectious Iospital es and Bed	MOVAL. fuse rem r-house ( TION. Diseases Diseases s Disinfe	oved to darbage Investi	21,251 530 326 167 46 85 80				
Number of	Loads of Tips Loads of Cases of to H Mattresse Bolsters Pillows a	FUSE REN House Ren f Slaughter ISINFECT Infectious Infectious Iospital es and Bed and Covers and Covers	MOVAL. fuse rem r-house ( TION. Diseases Disease s Disinfe	oved to darbage Investi	21,251 530 326 167 46 85				
Number of	REI Loads of Tips Loads of Cases of to H Mattresse Bolsters Pillows a Blankets	FUSE REN House Ren f Slaughter ISINFECT Infectious Infectious fospital es and Bed and Covers and Covers	MOVAL. fuse rem r-house ( TION. Diseases Diseases s Disinfe	oved to carbage Investi- cemoved ceted	21,251 530 326 167 46 85 80				
Number of	REI Loads of Tips Loads of Cases of to B Mattresse Bolsters Pillows a Blankets Quilts	FUSE REN House Ren f Slaughter ISINFECT Infectious Infectious fospital es and Bed and Covers and Covers	MOVAL. fuse rem r-house ( TION. Diseases Diseases s Disinfe	oved to carbage Investi- cemoved ceted	21,251 530 326 167 46 85 80 155				
Number of	Loads of Tips Loads of Tips Loads of Tips Cases of Tips Cases of Tips Mattress Bolsters Pillows a Blankets Quilts Miscellan	FUSE REN House Ren f Slaughter f Slaughter Infectious l Infectious fospital es and Bed and Covers and Covers and Covers	AOVAL. fuse rem r-house ( TION. Diseases Diseases s Disinfe	oved to carbage Investi- cemoved ceted	21,251 530 326 167 46 85 80 155 30				
Number of	Loads of Tips Loads of Tips Loads of Tips Loads of Tips Cases of Tips Gases of Tips Mattresse Bolsters Pillows a Blankets Quilts Miscellar Carpets,	FUSE REN House Ren f Slaughter ISINFECT Infectious Infectious fospital es and Bed and Covers and Covers	AOVAL. fuse rem r-house ( TION. Diseases Diseases s Disinfe	oved to carbage Investi- cemoved ceted	21,251 530 326 167 46 85 80 155 30 445				

## FACTORIES, WORKSHOPS, WORKPLACES, AND HOMEWORK.

## 1.—Inspection of Factories, Workshops, & Workplaces.

	Number of			
Premises.	Inspections.	Written Notices.	Prosecutions	
FACTORIES	85	Nil	Nil	
Workshops				
WORKPLACES (Other than Outworkers' premises included in Part 3 of this Report)	501	3	Nil	
Тотац	586	3	Nil	

## 3.-Home Work.

		OUTWORKERS' LISTS, SECTION 107.								
		Lists received from Employers.								
NATURE OF WORK.		Sending twice in the year.			Sending	once in the	he year.			
			Outwo	rkers.		Outworkers				
_			Con- tractors.	Work- men.	Lists.	Con- tractors.	Work- men.			
W	earing apparel— Making, &c Cleaning and	2			1	•••				
	Washing						••			
	Total	2	•••		1					

# · 2.—Defects found in Factories, Workshops, and Workplaces.

	Nı	Number		
Particulars.	Found.	Remedied.	Referred to H.M. Inspector.	of Prosecutions.
Nuisances under the Public Health				
Acts:— Want of cleanliness	23	23		
Want of ventilation	2	1		
Overcrowding				
Want of drainage of floors	* * *		• • •	
Other nuisances	12	12		
Sanitary accommodation : — \[ \] Insufficient  \dots   \dots  \dots  \dots  \dots  \dots  \dots  \dots  \dots  \dots  \dots   \dots  \dots   \dots  \dots  \dots				
Unsuitable or defective	3	3		
Not separate for sexes				
Offences under the Factory and Workshop Acts:— Illegal occupation of underground bakehouse (s. 101)				
Breach of special sanitary requirements for bakehouses (ss. 97 to 100)	5			
Other offences (Excluding offences relating to outwork, which are included in Part 3 of this report)				
Total	40	39	Nil	Nil

## 4.—Registered Workshops.

Workshops on the Regi	ster (s. 131) at the end of the year	Number.
Important classes of workshops, such as workshop bakehouses, may be enumerated here.	Workshops  Domestic Workshops  Bakehouses	141 71 74
Total num	per of workshops on Register	286

## 5.-Other Matters.

Class.	Number.
Matters notified to H.M. Inspector of Factories:  Failure to affix Abstract of the Factory and Workshop Acts (s. 133, 1901)	
not under the Factory & Workshop Acts (s. 5,1901): Notified by H.M. Inspector	1
Reports (of action taken) sent to H.M.  Inspector Other	1
Underground Bakehouses (s. 101) —	
In use at the end of the year	3

## 6.—Classified List of Workshops.

Business.	No.	Business.	No.
			_
Millinery	 19	Hand-weavers	. 2
Tailoring	 30	Fishing Tackle	. 2
Sugar Boiling	 2	Stocking Knitting	1
Cycle Repairing	 8	Scale Repairers	. 2
Dressmaking	 21	Picture Framing	. 2
Bakehouses	 74	Photography	. 4
Boot Repairing, Cloggers	 45	Tripe Boiling	. 2
Saddlery	 5	Chocolate Making	. 1
Meat Preparation	 <b>3</b> 0	Marine Dealers	. 4
Watch Makers, Jewellers	 15	Gut Scraper	. 1
Upholstering	 4	Fellmonger	. 1
Coopers	 2	Tanner	. 1
Basket Making	 2	Engraver	. 1
Umbrella Repairing	 1	Wagon Sheet Repairer	. 1
Taxidermist	 1		
Tinsmiths	 2	Total	286

# SUMMARY OF SANITARY WORK PERFORMED IN CONNECTION WITH INSPECTION OF DISTRICT.

DISTRICTI		
Nature of Inspections.		Number of visits paid.
HOUSES-		
Houses inspected under Housing Acts		2102
Houses inspected in accordance with the Ho	ousing	
(Inspection of District) Regulations, 1	910	90
Houses inspected under the Public I	lealth	
Act, 1875		3583
Houses inspected, special inquiry		32
Visits re Infectious Diseases		927
Drains Inspected		1006
, Tested		91
Nuisances from Fowls and Animals		12
Common Yards, Courts, & Alleys inspected		5681
Temporary or movable dwellings inspected	d	353
Public Halls, Schools, etc		40
Complaints investigated		107
Nuisances investigated		685
TRADE PREMISES—		
Bakehouses		205
Laundries	• • •	3
Cowsheds		78
Milkshops		142
Ice-Cream Shops		55
Fried Fish Shops	•••	215
Meat Preparation Premises	• • •	295
C1 1 1 1	• • •	687
2.6	• • •	129
The state of the s		85
Workshops and Workplaces		296
		243
Stables Shops Act Inspections	• • •	826
Chimpers absented (amoka nuisances)	•	17
Chimneys observed (smoke nuisances)		110
Refuse Tips Water samples taken for analysis		8
Visits re Rats and Mice Destruction Orde	 2r	15
Miscellaneous inspections	JI	2036
TT * 1	•••	52
Urinals	• • •	0.4
Notices served to abate Nuisances		340
		305
,, complied with		

## HOUSING WORKS DONE BY NOTICES UNDER THE PUBLIC HEALTH ACTS.

Walls, Damp and Defective,	Remedied	• • •		12
Roofs Repaired		• • •		12
Yards Paved and Repaired				6
Ceilings Repaired	6 6 B			4
Washhouses Repaired		• • •		5
Firegrates and Ovens Repaired		• • •		7
Chimney Stacks Repaired				3
Floor Repaired	• • •		• • •	1
Defective Outbuildings Repaire	ed	• • •	• • •	7
Housing Works do	ne withou	t Notice.	,	
Houses provided with New Dam	p Courses	• • •	• • •	5
do. do. New	Roof			1
do. do. New	Floor	• • •		1
Back-to-back Houses convert	ed into	through	ı	
Houses				3
Houses cement rendered or pla	astered			24
Houses provided with new W.C	.s.	• • •		2

I have the honour to be, Your obedient Servant,

> C. W. HILL, Chief Inspector.

